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ABSTRACT

This publication summarizes 182 projects supported by the research grants program of the Division of Nursing of the Public Health Service during 1955-1969. The projects are classified in three broad areas, including: (1) Organization, Distribution, and Delivery of Nursing Services, (2) Recruitment, Selection, Education, and Characteristics of the Nurse Supply, and (3) Nursing Research Development. Information provided for each project includes project title, grant number, names and addresses of investigators, period of support, a brief description, and, wherever possible, citations tc publications that resulted from the research. Indexes of project staff and subject matter are appended. (SB)

ED 066942

RESEARCH IN NURSING

1955 1968

RESEARCH GRANTS

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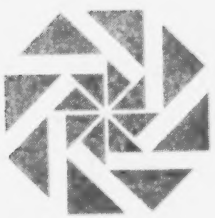
RESEARCH IN NURSING

1955 *1968*



RESEARCH GRANTS

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FOREWORD

Although nursing is the oldest of the health professions and its practitioners the most numerous of the health workers, the development of nursing research has lagged far behind that in most other fields. Only in recent years has there been an organized effort to develop and adapt the discoveries of modern science for use in nursing. Before 1948, only a few sporadic studies are on record. In that year, the Public Health Service began its intramural program of nursing research. Soon after, the American Nurses' Association started work that culminated in establishment of its research affiliate—the American Nurses' Foundation. At about the same time, several other privately endowed foundations undertook support of selected areas of investigation in nursing.

In 1955 nursing for the first time in its long history received Federal Government-supported grants for extramural research. In the years that followed the launching of this Public Health Service program, research in nursing was undertaken by institutions throughout the country, with a consequent broadening of the areas being studied, and emergence of greater maturity in both projects and techniques.

JESSIE M. SCOTT
Director, Division of Nursing

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INTRODUCTION

For ease of reference, the projects described in this volume have been classified in three broad areas: Organization, Distribution, and Delivery of Nursing Services; Recruitment, Selection, Education, and Characteristics of the Nurse Supply; and Nursing Research Development. This last classification includes research conferences, development of research tools, and experimental faculty research development projects.

Information provided includes project title, grant number, names and addresses of investigators, period of support, a brief description of each project, and, wherever possible, citations to publications that resulted from the research. An index of all project staff, provided by the investigators, and an index of the subject matter of the research are included.

For each project, bibliography citations are listed in sequence by year of publication. Other publications are pending as this goes to press, and many more are anticipated. For complete information about publications and for details of the projects, those interested should write to the investigator.

The Division of Nursing offers this summary listing of the projects supported by its research grants program in the years 1955-1969. We hope that this record of the work done in these crucial years will help to chart the course for future scientific investigation of the many unknowns that limit progress in patient care. We believe that in nursing, as in all professions that deal with health and well-being, research is vital to advancement and growth.

SECTION A

ORGANIZATION, DISTRIBUTION, AND DELIVERY OF NURSING SERVICES

A1. Community Nursing Services for Psychiatric Patients (NU 00021).

INVESTIGATORS: Austin, Florence C., R.N., B.S., Executive Director; Donnelly, Ellen M., R.N., Ed.D., Research Associate; Lepper, Kathleen E., R.N., M.A., Research Director; Steward, Judith R., Research Associate; and Star, Shirley A., Senior Research Analyst, Visiting Nurse Association of Hartford, Inc., Hartford, Conn.

An exploratory study, in cooperation with the Connecticut State Department of Mental Health, was undertaken, its purpose being to ascertain whether a public health nursing agency can extend its service to include the mentally ill and continue to provide optimum basic health protection.

Dates: September 1959—December 1965.

PUBLICATIONS: Wolff, Ilse S. A Study of the Mentally Ill Patients Under Care of Public Health Nurses. *Conn. Health Bull.*, 75:255–267, Oct. 1959.

Donnelly, Ellen, and Florence Austin. A Program for Continuity of Nursing Care for Psychiatric Patients, with Concurrent Evaluation of the Program. *Developments in Psychiatric Nursing in the Hospital and in the Community*, NLN, pp. 18–26, Apr. 1961.

Donnelly, E., F. Austin, R. Kettle, J. R. Steward, and C. Verde. A Cooperative Program Between a State Hospital and Public Health Nursing Agency for Psychiatric Aftercare. *Amer. J. Public Health*, 52:1084–1094, July, 1962.

Austin, Florence C., Ellen D. Davis, and Judith R. Steward. Characteristics of Psychiatric Patients Who Utilize Public Health Nursing Services. *Amer. J. Public Health*, 54:226–233, Feb. 1964.

A2. Specific Nursing Activities and Patient's Welfare (GN 4786).

INVESTIGATORS: Aydelotte, Myrtle Kitchell, R.N., Ph.D., Professor, College of Nursing, University of Iowa; and Tener, Marie E., R.N., Director of Nursing Service, University Hospitals, Iowa City, Iowa.

Questioning the theory that a larger nursing staff automatically improves patient welfare, this study tested the effect of increased nursing hours on the character of nursing care and patient recovery.

Dates: September 1956—June 1960.

PUBLICATIONS: Simon, J. Richard. The Criterion Problem in Nursing Research. *Bull. Iowa Nurs. Assn.*, 13:3–5, Jan. 1959.

Aydelotte, Myrtle K., and Marie E. Tener. *An Investigation of the Relation Between Nursing Activity and Patient Welfare.* State University of Iowa, 1960. 412 pp.

Simon, Richard. Patient Activity as a Measure of Patient Welfare. *Hosp. Manage.*, 90:95–100, Mar. 1960.

Simon, Richard, and Sally S. Chastain. Take a Systematic Look at Your Patients. *Nurs. Outlook*, 8:509–512, Sept. 1960.

Simon, Richard, and Marian E. Olson. Assessing Job Attitudes of Nursing Service Personnel. *Nurs. Outlook*, 8:424–427, 1960.

Simon, J. Richard. Nurses' Rating of Patient Welfare as Criterion Measures in the Health Services. *Occup. Psychol.*, 35:10–22, Jan.—Apr. 1961.

Aydelotte, Myrtle K. The Use of Patient Welfare as a Criterion Measure, *Nurs. Res.*, 11:10–14, Winter 1962.

Simon, Richard, and Willborn R. Hudson. An Experimental Study of the Relation Between Nursing Care and Patient Welfare. *J. Appl. Psychol.*, 48:4, Aug. 1964.

A3. Publication—Specific Nursing Activities and Patient's Welfare (GN 8570).

INVESTIGATORS: Aydelotte, Myrtle K., R.N., Ph.D., Professor of Nursing, University of Iowa, College of Nursing; and Tener, Marie E., R.N., Director of Nursing Service, University Hospitals, Iowa City, Iowa.

Additional reports of a completed project (GN 4786) were published for the use of investigators, faculty, and administrators who are considering the relationship of nursing activities to patient welfare.

Dates: April 1961—March 1962.

PUBLICATIONS: Aydelotte, Myrtle K., and Marie E. Tener. *An Investigation of the Relation Between Nursing Activity and Patient Welfare.* State University of Iowa, Iowa City, Iowa, 1960. Lib. Congress Card 60-63104. 412 pp.

A4. Nursing Values in a Psychiatric Hospital (NU 00025).

INVESTIGATORS: Baziak, Anna T., M.S.N., Research Associate; and Mundy, David, M.S., Research Assistant in Psychology, Yale University School of Nursing, New Haven, Conn.

A nurse-psychologist team explored a nursing role suitable to an ideal therapeutic milieu in a small psychiatric hospital, then tested the stability of changes that it effected in the values and objectives of nursing personnel.

Dates: December 1959—December 1965.

PUBLICATIONS: Baziak, Anna T. Influencing Nursing Practice in Changing Hospital Settings. *Nurs. Res.* 17:2:146–154, Mar.-Apr. 1968.

A5. Role of the Nurse in Outpatient Departments (GN 5294).

INVESTIGATORS: Bennis, Warren G., Ph. D., Assistant Professor of Psychology, Graduate Department of Psychology and Research Associate, Human Relations Center; Berkowitz, Norman, Ph.D., Lecturer in Psychology, Human Relations Center; and Malone, Mary, M.S., Research Associate, Boston University, Boston.

A sample of ambulatory patients, outpatient personnel, including physicians, and all 100 outpatient nurses in seven Boston area hospitals cooperated in interviews to learn how individual, role, and social system factors may be altered to improve outpatient nursing service.

Dates: September 1957—August 1958.

PUBLICATIONS: Malone, Mary, Norman H. Berkowitz, and Melcolm W. Klein. Interpersonal Conflict in the Outpatient Department. *Amer. J. Nurs.*, 62:108–112, Mar. 1962. (Reprinted in *Social Interaction and Patient Care*. J. B. Lippincott Co., Philadelphia, 1965, pp. 356–366.)

Malone, Mary. From Practitioner to Researcher. *Amer. J. Nurs.*, 62:65–68, Aug. 1962.

A6. Some Determinants of Conflict Resolution in OPD Nursing (NU 00015).

INVESTIGATORS: Bennis, Warren, Ph.D., Assistant Professor of Psychology; Chin, Robert, Ph.D., Associate Professor of Psychology; Berkowitz, Norman H., Ph.D., Lecturer in Human Relations and Social Psychology; Malone, Mary, R.N., M.S.; and Klein, Malcolm, Ph.D., Research Associates, Boston University, Boston.

It was hypothesized that the supervisors' reward system and the physicians' concept of the OPD nurse serve to affect the nurse's role conception and thus her performance. The views of outpatient nurses on role and performance were compared with those of supervisors and physicians in six Boston area hospitals.

Dates: September 1958—August 1963.

PUBLICATIONS: Bennis, W. G., N. Berkowitz, and M. Affinito. Reference Groups and Loyalties in the Outpatient Department. *Adm. Sci. Quar.*, 2:481–500, Mar. 1958.

Bennis, W. G., N. Berkowitz, M. Affinito, and M. Malone. Authority, Power, and Ability to Influence. *Hum. Relations*, 11:143–145, May 1958.

Benne, K., and W. Bennis. Role Confusion and Conflict in Nursing: The Role of the Professional Nurse, Part I, *Amer. J. Nurs.*, 59:196–198, Feb. 1959.

Bennis, Warren G. Leadership Theory and Administration Behavior, The Problem of Authority. *Adm. Sci. Quar.*, 4:259–301, Dec. 1959.

Berkowitz, Joanne E., and Norman H. Berkowitz. Nursing Education and Role Conception. *Nurs. Res.* (Briefs) 9:218–219, Fall 1960.

Bennis, W. Problem-Oriented Administration. *Hosp. Adm.*, 5:49–70, Winter 1960.

Bennis, W. G., and N. H. Berkowitz. Interaction Patterns in Formal Service Oriented Organizations. *Adm. Sci. Quar.*, 6:25–50, 1961.

Benne, K., and W. Bennis. Role Confusion and Conflict: What Is Real Nursing? Part II, *Amer. J. Nurs.*, 59:380–383, 1959 and *Canad. Nurse* 57:122–127, Feb. 1961.

Bennis, W. G., N. H. Berkowitz, Mary Malone, and M. W. Klein. Problems of Measuring Patient Care in the Outpatient Department. *J. Health Hum. Behav.*, 2:138–144, Summer 1961.

Malone, Mary, Norman H. Berkowitz, and Malcolm W. Klein. The Paradox in Nursing. *Amer. J. Nurs.*, 61:52–55, Sept. 1961.

Klein, M. W., Mary Malone, and Norman Berkowitz. Some Considerations in the Use of Qualitative Judgments as Measures of Organizational Effectiveness. *Sociol. Soc. Res.*, 46:26–35, Oct. 1961.

Berkowitz, N. H., Mary Malone, and N. W. Klein. Patient Care as a Criterion Problem. *J. Health Hum. Behav.*, 3 (3), Fall 1962, pp. 171–176.

Berkowitz, N. H., Mary Malone, and M. W. Klein. Teaching by Nurses in Outpatient Departments, *ANF Monograph*, 1963.

A7. Data for Control of Hospital Medications by Computer (NU 00053).

INVESTIGATORS: Blumberg, Mark S., M.D., Senior Health Economist; and Drew, Jacqueline, R.N., B.S., Stanford Research Institute, Menlo Park, Calif.

Medium sized hospitals that provide short-term care in the San Francisco area cooperated in a study to determine the feasibility of and specifications for a system to record, review, and display physicians' orders for medication. Dates: September 1961—March 1964.

PUBLICATIONS:

Blumberg, Mark S. Automation Offers Savings Opportunities. *Mod. Hosp.*, 91:59–61, Aug. 1958.

Blumberg, Mark. Men, Machines and Hospitals. *Hosp. Progr.*, 40:71–76, Nov. 1959.

Blumberg, Mark. Hospital Automation: The Needs and the Prospects. *Hosp., J. Amer. Hosp. Assn.* 35:34–43, 99, Aug. 1961.

Electronics Boom Spreads to Medicine, *Med. World News*, 2(17):15–16, 1961.

Fourth International Conference Opens on Medical Electronics. *Electronic News*, 6(270):1, July 17, 1961.

Computer with Memory and Brain Tells Who Gets Rx, When, How Often. *Drug Topics*, 105(17):31, 60, Aug. 1961.

Blumberg, Mark S. Prospects for Automation in Handling Physicians' Medication Orders. *Amer. J. Hosp. Pharm.*, 18:567–570, Sept. 1961.

Blumberg, Mark S. "DPF Concept" Helps Predict Bed Needs. *Mod. Hosp.*, 97:75–81, Dec. 1961.

Drew, Jacqueline A., and Mark S. Blumberg. What Happens To Medication Orders? *Amer. J. Nurs.*, 62:59–61, July 1962.

Blumberg, M. S. Computers for Hospitals, to be published in *The Proceedings.*

Blumberg, M. S., and J. A. Drew. Methods of Assessing Nursing Care Quality, *Hosp., J. Amer. Hosp. Assn.* 37:72, Nov. 1, 1963.

Blumberg, M. S. What Tasks Should Hospitals Perform? *Mod. Hosp.*, 101:104, Nov. 1963.

Blumberg, M. S. The Effects of Hospital Size and Speciality. Mimeo. 24 pp. Nov. 1963. To be published in *Hosp. J. Amer. Hosp. Assn.*

Blumberg, M. S. Subjective Notes on Hospital Research. *Hosp., J. Amer. Hosp. Assn.*, 38:61, Mar. 16, 1964.

Drew, J. Determining Quality of Nursing Care. *Amer. J. Nurs.*, 64:82, Oct. 1964.

A8. Nurse-Patient Relationships with Older Patients (GN 5226).

INVESTIGATORS: Brown, Martha M., R.N., M.A., Associate Professor of Nursing; and Henry, Jules, Ph.D., Professor of Anthropology, Washington University, St. Louis, Mo.

During this pilot project a group of nurses in the Master's program of Washington University observed older patients on the metabolic wards at Chronic Disease Hospital, St. Louis, Mo. They collected data on nurse-patient interaction and environmental factors affecting nurse-patient relationships.

Dates: April 1957—March 1958.

PUBLICATIONS: None. (See GN 5535)

A9. The Personalization of Older Patients (GN 5535).

INVESTIGATORS: Brown, Martha M., R.N., M.A., Associate Professor, Washington University School of Nursing, St. Louis, Mo.; Research Associates: Brown, Patricia R., R.N.; Glidewell, John C., Ph.D., Director of Administration and Research, St. Louis County Health Department, Clayton, Mo.; Henry, Jules, Ph.D., Professor of Anthropology, Department of Sociology and Anthropology; Hunt, Raymond G., Ph.D.; Weiss, James, M.A., Assistant Professor of Psychiatry, Washington University School of Medicine; and Research Assistants: Kimura, Evelyn, M.A.; Chamberlain, Marion, R.N.; Finger, Betty, R.N.; Pollert, Irene, R.N.; and Wallis, Ora Ruth, R.N., Washington University School of Nursing, St. Louis, Mo.

A group of patients aged 60 to 70 received skilled rather than routine nursing care to test two main hypotheses, namely, (1) that skilled care contributes to repersonalization, and (2) that depersonalization, which detaches a person from our social system is more pronounced in public than in private institutions.

Dates: December 1957—March 1962.

PUBLICATIONS: Brown, Martha. *Effects of Skilled Nursing Care Upon Personalization of Older Patients.* Final Progress Report. Washington University, St. Louis, Mo. 1962, 136 pp. Abstracted, *Nurs. Res.*, 12:130, Spring 1963.

Weiss, James M.A., (ed.). *Nurses, Patients, and Social Systems.* University of Missouri Press, Columbia, Mo., 1968, 205 pp.

A10. Nursing Resources on the Ward and Nurse-Patient Relationships (GN 4644).

INVESTIGATORS: Bryant, W. D., Ph.D., Executive Director, Community Studies, Inc., Kansas City, Mo.; New, Peter Kong-ming, M.A., Project Director; Deutscher, Irwin, M.S., Consultant; Arnold, Harriett, Director of Nursing Service, University of Kansas Medical Center; Warstler, Mary Ellen, Director of Nursing, Research Hospital; and Marshall, Adeline, Director of Nursing, Trinity Lutheran Hospital, Kansas City, Mo.

These hospitals cooperated in experimentally controlled situations to investigate the relative effects on nursing care of (1) increased nursing hours per patient and (2) variations in the composition of nursing staffs.

Dates: June 1956—August 1958.

PUBLICATIONS: Bryant, W. D. *Nursing Resources on the Ward and Nurse-Patient Relationships.* Community Studies, Inc. Kansas City, Mo., 1957, processed, 39 pp.

New, Peter Kong-ming, Gladys Nite, and Josephine M. Callahan. *Nursing Service and Patient Care: A Staffing Experiment.* Publication No. 119, Community Studies, Inc. Kansas City, Mo., Nov. 1959. 124 pp.

New, Peter Kong-ming, and Gladys Nite. Staffing and Interaction. *Nurs. Outlook,* 8:396–400, July 1960.

New, Peter Kong-ming, Gladys Nite, and Josephine Callahan. Too Many Nurses May Be Worse Than Too Few. Reprinted from *The Mod. Hosp.,* Oct. 1959, in *Social Interaction and Patient Care.* J. B. Lippincott Co. Philadelphia, 1965, pp. 266–271.

A11. Minimal Nursing Service Staffing Experiment (NU 00038).

INVESTIGATORS: Bryant, W. D., Ph.D., Executive Director, Community Studies, Inc.; Felson, Leon, M.S., Administrator; Thompson, Donald D., R.N., M.A., Associate Project Director; and Vorhees, Helen L., B.Sc., R.N., Experiment Nurse Supervisor, Kansas City General Hospital, Kansas City, Mo.

Inservice training time, hours of direct nursing care, and ratios of professional to auxiliary nursing personnel were varied experimentally. Purpose of the investigation was to discover which schedules and ratios resulted in the best service to patients who at most received two hours of nursing care per day.

Dates: May 1961—October 1964.

PUBLICATIONS: Bryant, W. D., S. J. Miller, and S. B. McConnel. *The Occupational Pattern of Nursing Personnel at a Community General Hospital.* Community Studies, Inc., Kansas City, Mo., 1963, processed, unnumbered.

Miller, S. J., and W. D. Bryant. How Minimal Can Nurse Staffing Be? *Mod. Hosp.,* 103:(3) 111–113, Sept. 1964.

Miller, S. J., and W. D. Bryant. *A Division of Nursing Labor. Experiments in Staffing a Municipal Hospital.* Community Studies Inc., Kansas City, Mo., 1965. 119 pp.

A12. The Potential Role of the Professional Nurse (GN 5069).

INVESTIGATOR: Bunge, Helen L., R.N., Ed.D., Executive Officer, Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York.

Representatives of schools of nursing and persons in allied fields collaborated on a pilot study and research design to explore the potential role of the professional nurse. Answers to two major questions were sought: (1) what theory underlies the nurse's therapeutic role? (2) what facts can be gleaned from testing the theory in practical hospital situations?

Dates: February 1957—September 1957.

PUBLICATIONS: None.

A13. Factors Influencing Continuity of Nursing Service (GN 5187).

INVESTIGATORS: Bunge, Helen L., R.N., Ed.D., Executive Officer, Institute of Research and Service in Nursing Education, Teachers College, Columbia

University; and Smith, Louise C., R.N., Ed.D., Project Director, Assistant Professor of Nursing Education, Teachers College, Columbia University. National League for Nursing, Department of Public Health Nursing, New York.

The research resources of community agencies in Ohio, New Jersey, and Vermont were used to examine existing plans for referring hospital patients for home nursing care and to differentiate patients whose care is continued from those whose care terminates with discharge from the hospital.

Dates: October 1957—September 1960.

PUBLICATIONS: Smith, Louise C. *Factors Influencing Continuity of Nursing Service: Final Report.* New York, Columbia University, Teachers College Institute of Research and Service in Nursing Education, and National League for Nursing, 1961. Processed. 370 pp.

Smith, Louise C. *Factors Influencing Continuity of Nursing Service.* New York, National League for Nursing, 1962, 139 pp.

A14. Rehabilitation Nursing: Experimental Use of Postural Reflexes (NU 00006).

INVESTIGATORS: Day, Sister M. Agnita Claire, O.S.M., R.N., Associate Professor of Nursing; and Franke, Florent E., M.D., Professor of Physiology, St. Louis University, St. Louis, Mo.

This investigation adapted cinematography for the study of postural reflex patterns. It undertook to establish norms against which abnormal reflex patterns could be evaluated, and stressed photographic study of normal reflex responses. To increase the validity, electromyography was performed simultaneously with cinematographic recording of the reflex patterns.

Dates: January 1962—April 1964.

PUBLICATIONS: Day, Sister Agnita Claire. Rehabilitation Nursing: Postural Reflex Patterns, *Nurs. Res.*, 13:139–147, Spring 1964.

A15 Factors Involved in Successful Breast Feeding (GN 7901).

INVESTIGATORS: Disbrow, Mildred A., R.N., M. Litt., Assistant Professor, University of California School of Nursing, Los Angeles.

Certain socio-cultural concepts regarding breast feeding were studied to learn how they influence success or failure in this aspect of child care.

Dates: January 1961—June 1962.

PUBLICATIONS: Adams, Martha A., and Mildred Disbrow. A Method of Teaching Maternal-Child Health Nursing. *Nurs. Outlook,* 8:390–391, July 1960.

Disbrow, Mildred. Any Mother Who Really Wants to Nurse Her Baby Can Do So. *Nurs. Forum,* 2:39–48, Mar. 1963.

A16. Attitudes Toward the Patient and Patient Care (NU 00017).

INVESTIGATORS: Dodge, Joan S., Ph.D., Research Associate; and Blumen, Mary, R.N., M.P.H., Research Associate, Sloan Institute of Hospital Administration, Cornell University, Ithaca, N.Y.

The relation between nurses' and doctors' attitudes toward patients in a hospital for the aged and chronically ill, and in some short-term hospitals, was investigated. The performance of patient care functions was studied, together with general favorability of attitudes and identification with the patient.

Dates: April 1959—October 1963.

PUBLICATIONS: Dodge, Joan S. Why Nurses Leave—and What To Do About It. *Mod. Hosp.* 94:116–120, 170, May 1960.

Dodge, Joan S. Nurse and Doctor Relations and Attitudes Toward the Patient. *Nurs. Res.*, 9:32–38, Winter 1960.

Dodge, Joan S. Age of Nurse Helps Determine Her Attitude Toward Patients. *Mod. Hosp.*, 95:116, Nov. 1960.

Dodge, Joan S. Changes in the Self-Percept with Age. *Perceptual and Motor Skills*, 13:88, Aug. 1961.

Dodge, Joan S. Nurses' Sense of Adequacy and Attitudes Toward Keeping Patients Informed. *J. Health Hum. Behav.*, 2:213–216, Fall 1961.

Dodge, Joan S. Attitudes Toward Staff-Patient Communication at Two Hospitals: An Exploratory Study. *Hosp. J. Amer. Hosp. Assn.*, July 1964.

Dodge, Joan S. Nurses' Sense of Adequacy and Attitudes Toward Keeping Patients Informed. *Social Interaction and Patient Care.* Skipper, James K., Jr., and Robert C. Leonard, eds. J. B. Lippincott Co., Philadelphia, 1965. pp. 87–92.

A17. The Effect of Nursing Care on Post-Operative Vomiting (GN 8883).

INVESTIGATOR: Dumas, Rhetaugh Graves, M.S.N., Research Assistant, Yale University School of Nursing, New Haven, Conn.

A controlled study was undertaken to compare the effects of routine care with an experimental nursing process on the incidence of post-operative vomiting. Comparison was based on direct observation, patients' records, and an experience poll of nurses and anesthetists.

Dates: September 1961—August 1962.

PUBLICATIONS: Dumas, Rhetaugh G., and R. C. Leonard. The Effect of Nursing on the Incidence of Post-operative Vomiting. *Nurs. Res.*, 12:12–15, Winter 1963.

Dumas, Rhetaugh G. Psychological Preparation for Surgery. *Amer. J. Nurs.*, 63:52–53, Aug. 1963.

Dumas, Rhetaugh G. Behind the Theory of Nursing Practice. *Amer. J. Nurs.*, 63:54, Aug. 1963.

Dumas, Rhetaugh G., Barbara J. Anderson, and Robert C. Leonard. The Importance of the Expressive Function in Preoperative Preparation. *Social Interaction and Patient Care.* Skipper, James K., Jr., and Robert C. Leonard, eds. J. B. Lippincott Co., Philadelphia, 1965. pp. 16–29.

A18. A Study of An Extendor Role for Professional Nurses (NU 00052).

INVESTIGATORS: Enos, Francis A., Ph.D., Research Director; Sindberg, Ronald, M.D., Research Director; Stevens, Harvey A., M.A., Superintendent; Morgan, Jean R., R.N., B.S., Project Director; Meissner, Ann L., R.N., M.A., Research Associate; Bardwell, Fredrica, Psychologist; and Ethun, Carol, B.S., R.P.T., Physical Therapist, Central Wisconsin Colony and Training School, Madison, Wisc.

Ways were studied to increase the effectiveness of the relationship between professional nurses and institutionalized severely mentally retarded children.

This experiment explored improvement in the children when functions of the nurse are extended to include speech and physical therapy.

Dates: September 1962—December 1964.

PUBLICATIONS: Morgan, Jean R., Gene V. Glass, Harvey A. Stevens, and Ronald M. Sindberg. An Extendor Role for Nurses. *Nurs. Res.*, 14:4:330–334, Fall 1965.

A19. Play Interviews for Hospitalized Pre-School Children (NU 00013).

INVESTIGATORS: Erickson, Florence, R.N., Ph.D., Professor of Pediatric Nursing; Holt, Jacqueline, M.N., Assistant Research Professor Department of Pediatric Nursing; Kazik, Mary, R.N., M.A., Research Assistant, Department of Pediatric Nursing; McFarland, Margaret, Ph.D., Associate Professor of Psychology; and Reinhart, John B., Ph.D., Associate Professor of Child Psychiatry and Pediatrics, University of Pittsburgh, School of Medicine, Pittsburgh, Pa., Erikson, Erik, Senior Staff Member, Austen Riggs Center, Stockbridge, Mass., and King, Stanley, Ph.D., Associate Director of Research, Harvard University, Cambridge, Mass.

Toy clinical equipment was used in interviews to observe the reactions of children to bodily intrusion. The study subjects comprised a total of 40 hospitalized and 30 nonhospitalized patients of varying backgrounds and medical conditions.

Dates: September 1958—July 1963.

PUBLICATIONS: Erickson, Florence H. *Play Interviews for Four-Year-Old Hospitalized Children.* Monographs of the Society for Research in Child Development, Inc., Vol. 23, Serial No. 69. No. 3. Yellow Springs, Ohio, Child Development Publications, 1958, 77 pp.

Erickson, Florence. Reactions of Children to Hospital Experience. *Nurs. Outlook*, 6:501–504, Sept. 1958.

Havenrich, Robert M., Florence Erickson, and Martin Saren. Viewpoint of Children in Hospitals. *Hosp.*, 37:40–52, May 1963.

A20. Identification of Researchable Nursing Care Problems (NU 00127).

INVESTIGATORS: Faville, Katherine, R.N., M.S., Dean, Wayne State University College of Nursing, Detroit; and Beland, Irene, R.N., M.S., Professor of Medical-Surgical Nursing, Wayne State University College of Nursing, Detroit.

A specialist in medical-surgical nursing was assigned full time to engage in identification of problems in nursing care of acutely ill patients and to develop plans for investigating some of the problems. Increased research awareness of hospital staff and of joint student-faculty and physician-nurse investigations also are anticipated.

Dates: June 1964— December 1966.

PUBLICATIONS: Cleland, Virginia. The Effects of Stress on Performance. *Nurs. Res.*, 14:4:292–298, Fall 1965.

Santora, Delores. Preventing Hospital-Acquired Urinary Infection. *Amer. J. Nurs.*, 66:4:790–794, Apr. 1966.

Cleland, Virginia. Effects of Stress on Thinking. *Amer. J. Nurs.*, 67:1:108–111, Jan. 1967.

Cleland, Virginia. Concerning Catheter-Induced Infections. (critique). *New Eng. J. Med.* p. 416, Feb. 16, 1967.

Watts, Wilma. Social Class, Ethnic Background, and Patient Care. *Nurs. Forum*, 6:2:155–162, 1967.

Cleland, Virginia. The Use of Existing Theories. *Nurs. Res.*, 16:2:118–121, Spring 1967.

Donaldson, Sue Bolitho. Methods for Measuring Sputum Viscosity and Inspired Air Humidity in Tracheostomized Patients. *Nurs. Res.*, 17:5:388–395, Sept.-Oct. 1968.

Cleland, Virginia. *Fundamentals of Research in Nursing*, by David Fox. (Book Review), *Amer. J. Nurs.*, p. 2750, Dec. 1966.

A21. Measures of Hospital Patient Care Loads (NU 00064).

INVESTIGATOR: Feyerherm, Arlin M., Ph.D., Associate Professor of Statistics, Kansas State University of Agriculture and Applied Science, Manhattan, Kan.

Analysis was made of various measures of patient care load to arrive at a formula for estimating the required number of nursing care hours for patients with varying requirements.

Dates: September 1962—August 1964.

PUBLICATIONS: Feyerherm, Arlin M. Nursing Activity Patterns: A Guide to Staffing. *Nurs. Res.*, 15:2:124–133, Spring 1966.

A22. Public Health Nursing for the Sick at Home (NU 00045).

INVESTIGATORS: Fillmore, Anna, R.N., M.P.H., Executive Director; Holliday, Jane, R.N., Ed.D., Research Project Director; and Reese, Eva N., M.A., Executive Director, Visiting Nurse Service, New York City.

A comprehensive study was undertaken to ascertain optimum utilization of all types of workers employed by the Visiting Nurse Service of New York for the care of the sick.

Dates: September 1961—June 1966.

PUBLICATIONS: Holliday, Jane. The Exploratory Study Method: An Aid to Research Design. *Nurs. Res.*, 13:37–44, Winter 1964.

Holliday, Jane, (ed.). *Public Health Nursing for the Sick at Home. A Descriptive Study.* Visiting Nurse Service of New York, New York, 1967, 228 pp.

Reese, Eva. The Service Team in a Coordinated Home Care Program. *JAMA*, 205:800–801, Sept. 9, 1968.

A23. Optimal Organization and Facility for a Nursing Unit (NU 00010).

INVESTIGATORS: Flagle, Charles D., Dr. Eng., Director; Preston, Ruth, R.N., M.S., Research Associate; Connor, Robert J., B.E.S., Research Assistant; Singer, Sidney, A.B., Research Assistant; and Hsieh, Richard K.C., B.E.S., Industrial Engineer, Operations Research Division, The Johns Hopkins Hospital, Baltimore.

The interacting procedures of medical, nursing, administrative and auxiliary hospital personnel were reviewed to develop a model for an optimal nursing unit which would sense changes in demand for nursing service, and effect corresponding changes in use of staff and equipment.

Dates: December 1957—November 1963.

PUBLICATIONS: Flagle, Charles, D., A Hospital Exam: Subject, the Hospital. *The Johns Hopkins Mag.*, 6:2–8, June 1958.

Connor, R. J., C. D. Flagle, R.K.C. Hsieh, R. A. Preston, and S. Singer. Effective Use of Nursing Resources—A Research Report. *Hosp.*, 35:30–39, May 1961.

Conner, Robert J. A Work Sampling Study of Variations in Nursing Work Load. *Hosp.*, 35:40–41, May 1961.

Flagle, Charles D. Operations Research in the Health Services. *Operations Res.*, 10:591–603, May 1962.

Preston, Ruth A. Add Meaning to your Hospital Census. *Nurs. Outlook*, 10:466–468, July 1962.

Wolfe, Harvey, and John P. Young. Staffing the Nursing Unit. Part I. Controlled Variable Staffing. *Nurs. Res.*, 14:3:233–243, Summer 1965.

Wolfe, Harvey, and John P. Young. Staffing the Nursing Unit. Part II. The Multiple Assignment Technique. *Nurs. Res.*, 14:4:299–303, Fall 1965.

A24. Specific Nursing Behaviors Related to Patient Improvement (GN 4648).

INVESTIGATORS: Flanagan, John C., Ph.D., Director of Research; Suttell, Barbara J., Ph.D., Senior Research Scientist; Gorham, Willliam A., Ph.D., Research Scientist; Lichtenstein, Stanley, Ph.D., Research Associate and Heidgerken, Loretta, R.N., Ed.D., Technical Consultant, American Institute of Research, Washington, D.C.

Definition of critical nursing behaviors, especially in relation to patient care and improvement; development of methods to measure performance of those behaviors; and study and evaluation of methods for predicting success as a general duty nurse were among the objectives of this research.

Dates: May 1956—August 1958.

PUBLICATIONS: Flanagan, John C. Staff Nursing Behavior Contributing to Patient Care and Improvement. *Nurs. Res.*, 11:68–79, Spring 1962.

A25. Plan for Testing a Nursing Evaluation Instrument (NU 00032).

INVESTIGATORS: Flitter, Hessel H., R.N., Ed.D., Director; and Tate, Barbara, R.N., Ed.D., Assistant Director, Research and Studies Service, National League for Nursing, New York; and Smith, Patricia C., Associate Professor of Psychology, Cornell University, Ithaca, N.Y.

An experimental form for evaluating staff nurse activities was constructed, tested, and made available to hospital nursing services.

Dates: July 1960—December 1963.

PUBLICATIONS: Flitter, Hessel. *Development of a Plan for Testing a Nursing Evaluation Instrument.* NLN Code No. 19–1121, 1964, 99 pp.

Tate, Barbara L. *A Method for Rating the Proficiency of the Hospital General Staff Nurse.* NLN Research and Studies Services, Code No. 19–1122, 1964, 28 pp.

Tate, Barbara L. *Test of a Nurse Performance Evaluation Instrument.* Code No. 19–1121, NLN, 1964, 99 pp.

A26. Continued Care by Nurses and Doctors: An Experiment (NU 00067).

INVESTIGATORS: Ford, Amasa B., M.D., Assistant Professor of Medicine, School of Medicine; Katz, Sydney, M.D., Research Consultant, School of Medicine; Adams, Mary, R.N., Ph.D., Project Director; Rusby, Dorothy I., R.N., M.A., Director of Care Unit, Visiting Nurse Association of Cleveland; and Stair, Jean, R.N., Ed.D., Associate Professor Public Health Nursing, Case Western Reserve University, Cleveland.

The functional status of patients who received public health nursing care following discharge from a chronic disease rehabilitation hospital was compared with that of patients who did not receive planned, continuous followup care.

Dates: January 1963—August 1968.

PUBLICATIONS: Katz, Sidney, et al. Studies of Illness in the Aged. *JAMA*, 185:914-919, Sept. 21, 1963.

Adams, Mary, T. Downs, and H. Deuble. Nursing Referral Outcomes for Post-Hospitalized Chronically Ill Patients. *Amer. J. Public Health*, 58:101-106, 1968.

Ford, A. B., S. Katz, and M. Adams. "Research Design and Strategy in a Controlled Study of Nursing Care," paper presented to Medical Care Section, American Public Health Association, Chicago, Oct. 21, 1965.

Katz, S., and A. B. Ford. "The Evaluation of the Chronically Ill Patient," paper presented at Symposium on Long-Term Care, Washington University School of Medicine, St. Louis, June 10, 1965.

Ford, A. B. "The Continued Care Study," seminar presented to Dept. of Public Health Administration, JHU, Mar. 7, 1966.

Adams, M., H. Deuble, D. Rusby, J. Stair, and T. Downs, "A Study of Nursing Care for Post-Hospitalized Chronically Ill Patients," paper accepted for presentation to Research in Home Care Session, American Public Health Asso., San Francisco, Nov. 2, 1966.

Adams, Mary. "Older Patients and Their Care: Interaction with Families and Public Health Nurses," paper presented at ANA research conference 1968.

Ford, A., S. Katz, M. Adams, and A. Cicchinelli. Continued Care by Public Health Nurses. *Clin. Res.*, 12:296, Apr. 1964. (Abstract.)

Ford, A., S. Katz, and M. Adams. Experimental Study of Public Health Nursing Care on Patient Welfare. *Clin. Res.*, 13:342, Apr. 1965.

Katz, Sidney, A. B. Ford, T. D. Downs, M. Adams, and D. I. Rusby. *Evaluation of Continued Care of the Aged Ill at Home.* Case Western Reserve University, processed, 340 pp.

A27. A Study of the Relationship of Patient Improvement to the Use of Available Psychiatric Nursing Service Time for Direct Patient Care in a Progressive Service Setting (GN 4512).

INVESTIGATORS: Forrer, Gordon, R. M.D., Medical Department, Clinical Director; Grisell, James, M.A., Director Clinical Psychology and Research Coordinator; Burke, Christina, R.N., Director of Nursing; Chall, Curwood, R.N., Nursing Supervisor; Goodwin, Warren, M.D., Medical Department, Chief of Male Service; Hawkins, Christy, R.N., M.S., Psychiatric Resource Nurse, Northville State Hospital, Northville, Mich.

A controlled study was undertaken to ascertain whether increased psychia-

tric nursing staff results in improvement in state mental hospital patients.
Dates: December 1955—November 1956.
PUBLICATIONS: Forrer, Gordon R., and James L. Grissell. Patient Improvement and Psychiatric Nursing Care. *Dis. Nerv. Syst.*, 20:357–363, Aug. 1958.

A28. A Method for Determining Extra-Hospital Nursing Needs (GN 4753).
INVESTIGATORS: Freeman, Ruth B., R.N., Ed.D., Associate Professor, Public Health Administration; Mickey, Janice, R.N., M.S., Associate Professor, Public Health Nursing; Cochran, William, M.A., Statistician; Ciocco, Antonio, Sc.D., Statistician; Wilner, Daniel, Ph.D., Sociologist; Cosgrove, Jospehine, Public Health Nurse Interviewer; Louis, Elizabeth, Public Health Nurse Interviewer; and Elleaberger, Ethel, Public Health Nurse, The Johns Hopkins University, Baltimore.

A procedure to help administrators of public health programs match nursing services to community needs for home care, instruction, counseling, and emotional support was developed, using a random sample of 1,000 households in Bulter County, Pa.
Dates: September 1956—December 1958.
PUBLICATIONS: Mickey, Janice E. Studying Extra-Hospital Nursing Needs: A Preliminary Report. *Amer. J. Public Health*, 48:880–887, July 1958.

Lowe, Marie L., and Ruth B. Freeman. Search and Research. *Nurs. Outlook*, 9:313–315, May 1961.

Freeman, Ruth B. Measuring the Effectiveness of Public Health Nursing Service. *Nurs. Outlook*, 9:605–607, Oct. 1961.

Freeman, Ruth B., and Marie Lowe. A Method for Appraising Family Public Health Nursing Needs. *Amer. J. Public Health*, 53:47–52, Jan. 1963.

Mickey, Janice E. Findings of Study of Extra-Hospital Nursing Needs. *Amer. J. Public Health*, 53:1049–1057, July 1963.

A29. The Effectiveness of a Clinical Nurse Specialist Role (NU 00150).
INVESTIGATORS: Georgopoulos, Basil S., Ph.D., Senior Study Director, Institute for Social Research, University of Michigan, Ann Arbor, Mich.; Christman, Luther, R.N., Ph.D., Associate Professor Nursing; School of Nursing, University of Michigan; Pilisuk, Mark, Ph.D., Assistant Professor of Psychology in Nursing; and Sana, Josephine M., R.N., M.A., Assistant Professor of Nursing, School of Nursing, University of Michigan.

This 4-year controlled study was designed to gain knowledge of the value of adding clinical nurse specialists to staff hospital medical wards. Analysis of the effect of specialists on the general ward performance, nursing practice, and doctor-nurse-patient interaction will be based on data derived from medical and nursing personnel, medical and nursing students, patients, and records of patients.
Dates: September 1964—
PUBLICATIONS: Georgopoulous, Basil S. The Hospital System and Nursing: Some Basic Problems and Issues. *Nurs. Forum*, 5:3:8–35, Aug. 1966.

Christman, L. The Influence of Specialization on the Nursing Profession. *Nurs. Sci.*, 1965, 3:446–453.

Christman, L. Knowledge, Change, and Nursing Care. *Amer. J. Nurs.*, 66:9:2027–2029, Sept. 1966.

Georgopoulos, B. S., and A. Matejko. The American General Hospital as a Complex Social System. *Health Serv. Res.*, 2:76–112, 1967.

Christman, L. Specialism and Generalism in Clinical Nursing. *Hosp., J. Amer. Hosp. Assn.*, 41:83–86, 1967.

Christman, Luther. The Nurse Clinical Specialist. *Hosp. Progr.*, Aug. 1968.

A30. New Dimensions for Improvement of Clinical Nursing: Development of Criteria To Measure the Effectiveness of Clinical Nursing Practice (NU 00116).

INVESTIGATORS: Griffin, Gerald J., R.N., M.S., Head, Department of Nursing, Bronx Community College, Bronx, N.Y.; Kinsinger, Robert E., Ed.D., Director Associate Degree Nursing Project, New York State Department of Education; Pitman, Avis J., R.N., M.A., Assistant Professor, Department of Nursing, Bronx Community College; and Hagen, Elizabeth, Ph.D., Associate Professor of Education and Research Associate, Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York.

Closed circuit television is used to observe clinical nursing behavior and collect data to identify criteria for improving nursing practice. Findings, equipment, and experience gained in an earlier study (NU 00049) are used to test the effectiveness of closed circuit television as a nursing education tool.

Dates: January 1964—May 1967.

PUBLICATIONS: Study Use of TV in Nurse Training. *Today's Health*, Jan. 1963, pp. 87–88.

Experimenting with TV in Clinical Teaching. *Amer. J. Nurs.*, 63:80–81, Apr. 1963.

Kinsinger, Robert E. Technology and Imagination-Educational Evolution. *Nurs. Outlook*, 11:4, Apr. 1963.

A31. Evaluation of Persons for Leadership Positions in Nursing in General Hospitals (GN 4484).

INVESTIGATORS: Hagen, Elizabeth Pauline, Ph.D., Assistant Professor of Education; and Wolff, LuVerne, R.N., M.S., Research Associate, Teachers College, Columbia University, New York.

This exploration of behaviors which lead to successful or unsuccessful solutions of nursing supervisory problems in general hospitals also dealt with the relationship of nurse morale to situational factors and to general agreement between nurse supervisors and other professional staff.

Dates: June 1956—August 1960.

PUBLICATION: Hagen, Elizabeth, and LuVerne Wolff. *Nursing Leadership Behavior in General Hospitals.* Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York, 1961, processed, 198 pp.

A32. Decision-Making in Public Health Nursing (NU 00059).

INVESTIGATORS: Hansen, Ann C., R.N., M.P.H., Associate Research Professor;

and Thomas, Donald B., M.A., Research Psychologist, Department of Public Health Nursing, School of Public Health, University of North Carolina, Chapel Hill, N.C.

Representative samples of public health nursing faculty, agency staff nurses, and students of public health nursing in 16 Southern States were queried to discover (1) factors that guide them in setting priorities for home visits and (2) reasons for advising patients to seek medical care.

Dates: January 1963—September 1968.

PUBLICATIONS: Hansen, Ann C., and Harry S. Upshaw. Evaluation Within the Context of Role Analysis. *Nurs. Res.*, 11:3:144–150, Summer 1962.

Hansen, Ann C., Donald B. Thomas, and Harry S. Upshaw. Judgement of Priorities for Home Visits. *Nurs. Outlook*, 10:385–389, June 1962.

Hansen, Ann C., and Donald B. Thomas. Student Interest in Public Health Nursing. *Nurs. Res.*, 13:233–238, Summer 1964.

Hansen, Ann C., and Donald B. Thomas. Students' Disappointments in Public Health Nursing. *Nurs. Outlook*, 13:68–72, May 1965.

Hansen, Ann C., and Donald B. Thomas. Change of Interest in Public Health Nursing Practice. *Nurs. Res.*, 15:3:207–213, Summer 1966.

Thomas, Donald B., and Ann C. Hansen. Role Group Differences in Assignment of Priorities: A Variable Perspective Interpretation. *Nurs. Res.*, 15:1:13–19, Winter 1966.

Hansen, Ann C., and Donald B. Thomas. A Conceptualization of Decision-Making: Its Application to a Study of Role and Situation-Related Differences in Priority Decisions. *Nurs. Res.*, 17:5:436–443, Sept.-Oct. 1968.

Hansen, Ann C., and Donald B. Thomas. Role Group Differences in Judging the Importance of Advising Medical Care. *Nurs. Res.*, 17:6:525–532, Nov.-Dec. 1968.

Public Health Nursing, Decision Scales. Chapel Hill, N.C. School of Public Health, University of North Carolina, 26 pp.

Thomas, Donald B., and Ann C. Hansen. Multiple Discriminant Analysis of Public Health Nursing Decision Responses. *Nurs. Res.*, processed.

Hansen, Ann C., and Donald B. Thomas. Decision-Judgment Differences Among Public Health Nurses: Discriminant Score Comparisons. *Nurs. Res.*, processed.

Hansen, Ann C. Research Findings Relevant to Agency-University Relationships. *Nurs. Res.*, processed.

Thomas, Donald B., and Ann C. Hansen. Priority Decision Professionalization Prior to Public Health Field Practice. *Nurs. Res.*, processed.

Hansen, Ann C., and Donald B. Thomas. Decision-Response Changes as Reflected in Students' Discriminant Classifications. *Nurs. Res.*, processed.

Hansen, Ann C., and Donald B. Thomas. Priority Decision Changes During Senior Student Year and First Year After Graduation. *Nurs. Res.*, processed.

A33. The Professional Nurse in Public Health (GN 4514).

INVESTIGATORS: Hardin, Clara A., Ph.D., Executive Director and Johnson,

Walter L., Ph.D., Co-Director, Public Health Nursing Study; Simon, Helen M., R.N., M.A., Research Associate; Bradford, Jacqueline, B.A., Research Assistant and Editor; and Marshall, Eleanor M., B.A., Statistician, American Nurses' Foundation, Inc., New York.

Data were collected through visits to homes, schools, and clinics in widely separated areas in the United States to assay the scope of public health nursing functions and to learn how patient and family response affects public health nursing service.

Dates: April 1956—June 1962.

PUBLICATIONS: Johnson, Walter L. Personnel Shortage in the Health Field and Working Patterns of Women. *Public Health Rep.*, 72–61–66, Jan. 1957.

Johnson, Walter L. Public Health Nursing Turnover. *Amer. J. Nurs.*, 57:464–466, Apr. 1957.

Progress Report of the Research Project, Public Health Nursing Study. *Proceedings, 41st Convention of the ANA, Atlantic City.* ANA, 10 Columbus Circle, New York, June 1958.

Hardin, Clara A., and Walter L. Johnson. *The Professional Nurse in Public Health.* American Nurses' Foundation, Inc., New York, Sept. 1959, processed, 12 pp.

Johnson, Walter L., and Helen M. Simon. Some Aspects of the Interaction of Public Health Nurses and Patients in Home Visits. *Amer. J. Public Health*, 51:95–105, Jan. 1961.

Johnson, Walter, and Clara A. Hardin. *Content and Dynamics of Home Visits of Public Health Nurses.* Part I. American Nurses' Foundation, New York, 1962, 146 pp. Part II, 1969.

Abrams, Rhoda. Patterns in Public Health Nursing Visits. *Amer. J. Nurs.*, 63:102–104, Mar. 1963.

A34. Crucial Variables in Nurse-Patient Interaction (NU 00105) (NU 00218).

INVESTIGATORS: Hardin, Clara A., Ph.D., Executive Director; and Johnson, Walter L., Ph.D., Project Director, American Nurses' Foundation, Inc., New York.

Factors that affect interaction between professional nurses and patients were studied for resulting outcome in terms of patient health and well-being.

Dates: June 1964—June 1966.

PUBLICATIONS: See A 33 (GN 4514)

Johnson, Walter L. *Content and Dynamics of Home Visits of Public Health Nurses.* Part II. American Nurses' Foundation, New York, 1969, processed.

Clark, Vivian. *An Approach to Formulation of Clinic Nursing Standards.* Health and Hospital Planning Council of Southern New York, Inc., 1969, processed.

A35. The Role of the Public Health Nurse (NU 00036).

INVESTIGATOR: Hassinger, Edward W., Ph.D., Assistant Professor of Rural Sociology, University of Missouri, Columbia, Mo.

The work satisfaction of the public health nurse is presupposed to be adversely affected by conflicting expectations of her role on the part of the community, the health agency, and the nurse herself. For supporting data a canvas was conducted among public health nurses, leaders in nursing and allied disciplines, and the general public in non-metropolitan areas of Missouri.
Dates: June 1961—September 1964.
PUBLICATIONS: Hassinger, Edward W., and Charles E. Grubb. The Linking Role of the Local Public Health Nurse in Missouri. *Rural Sociol.*, 30:3:299–310, Sept. 1965.

Hassinger, Edward W., and Charles E. Grubb. *Role of the Local Public Health Nurse.* University of Missouri, College of Agriculture, Research Bulletin 896, Oct. 1965.

A36. Study of the Role of the Nurse in the Preventive Services of a Student Health Clinic (NU 00008).

INVESTIGATORS: Hathaway, John S., M.D., Director, Department of University Health; Fitzgerald, Helene M., R.N., Director, Nursing Services, Department of University Health; and Brown, Mary Louise, M.A., Assistant Professor, Department of Public Health, Yale University, New Haven, Conn.

In lieu of the traditional physician's examination, nurse-conducted health interviews were tried experimentally in the university medical clinic with 1,200 randomly selected Yale freshmen over a 4-year period. The purpose of the study was to ascertain whether the interview did effectively identify health problems, promote the use of preventive health services, and improve doctor-nurse team activity.
Dates: September 1957—August 1963.
PUBLICATIONS: Davie, James S. The Role of the Nurse in a Student Health Service: An Experimental Study. *Sociol. Soc. Res.*, 45:66–70, Oct. 1960.

Hathaway, John S., Mary L. Brown, and J. Wister Meigs. The Role of the Nurse in the Preventive Services of a Student Health Clinic. *Student Med.*, 9:137–141, Dec. 1960.

Hathaway, John S., H. S. Milone, and C. White. Health Problems and Health Surveys of College Students. *Student Med.*, 9:211–217, Feb. 1961.

Hathaway, John S., and others. The Role of the Nurse in a University Health Service. *Nurs. Outlook*, 10:533–537, Aug. 1962.

A37. Nursing Care and Pain Patterns Following Heart Surgery (NU 00039).

INVESTIGATORS: Hofman, Bonnie C., M.S., Assistant Professor, School of Nursing; and Bakan, David, Ph.D., Professor of Psychology, University of Missouri, Columbia, Mo.

Pilot work was undertaken to develop scales for evaluating the pain experience of adult heart surgery patients, patients' perception of pain as a threat, and the effect of nursing interventions in reducing or controlling pain.
Dates: June 1961—August 1962.
PUBLICATIONS: None.

A38. Nurses' Follow-up of Children from Psychiatric Services (GN 4796).

INVESTIGATORS: Hook, Marjorie J., R.N., Ed.D., Assistant Professor of Nurs-

ing and Coordinator of Field Studies in Nursing; Dixon, Dorothy, R.N., M.S., Associate in Psychiatric Nursing and Supervisor of Children's Services; and Weltmer, Inez, R.N., M.P.N., Research Nurse, University of Nebraska, Lincoln.

Problems faced by children when they go home from psychiatric inpatient therapy services were identified; activities of nurses working to facilitate return to community living documented; and interactions among patient, family, and community observed for 4 years following discharge from hospital.

Dates: June 1957—August 1961.

PUBLICATIONS: Hook, Marjorie J., Inez Weltmer, and William R. Jensen. *Nurses Follow-up of Children from Psychiatric Service.* Final Report. University of Nebraska, Nebraska Psychiatric Institute, 1961, processed, 73 pp.

A39. Developing a Methodology for Evaluation of Patient Care (GN 7797).

INVESTIGATORS: Howland, Daniel, Ph.D., Associate Professor of Industrial Engineering; Thrush, Randolph S., Ph.D., Research Associate in Psychology; Seeman, Melvin, Ph.D., Associate Professor of Sociology; Brancely, F., Resident Assistant, Sociology; Evans, J., M.S., Resident Associate, Sociology; Hoover, T., Resident Assistant, Industrial Engineering; Kenner, M., Ph.D., Resident Associate, Mathematics; Lanese, R., Assistant in Psychology; Lathers, R., Associate in Social Administration; McClure, G., Ph.D., Resident Associate, Philosophy; McDowell, W., R.N., Resident Associate, Education; Morris, W., Resident Associate, Industrial Engineering; Rockwell, T., Ph.D., Resident Associate, Industrial Engineering; Rogers, L. Edna, Assistant in Sociology; Tremein, A. Cole, Resident Assistant, Political Science; and Yett, D., A.B., Resident Associate in Economics, The Ohio State University, Columbus.

Construction and testing of a model of an internal hospital system was the objective of this research. In addition, labor markets, hospital communications, stratifications of services, and characteristics of the chronically ill constituted other areas explored to provide hospitals with a means of evaluating patient care.

Dates: June 1956—May 1961.

PUBLICATIONS: Rogers, L. Edna. *Measurement of Status Relations in Hospitals.* The Ohio State University Engineering Experiment Station Bulletin 175, Columbus, 1959, 55 pp.

Howland, Daniel. *The Development of a Methodology for the Evaluation of Patient Care.* The Ohio State University Engineering Experiment Station, Columbus, 1961, 109 pp.

Seeman, Melvin, John W. Evans, and L. Edna Rogers. The Measurement of Stratification in Formal Organization. *Human Organization,* 19:90–96, Winter 1960.

Seeman, Melvin, and John W. Evans. Stratification and Hospital Care. I. The Performance of the Medical Interne. *Amer. Soc. Rev.,* 26:67–80, Feb. 1961.

Seeman, Melvin, and John W. Evans. Stratification and Hospital Care. II. The Objective Criteria of Performance. *Amer. Soc. Rev.,* 26:193–204, Apr. 1961.

Howland, Daniel. Engineering in Interdisciplinary Research. *J. Eng. Educ.,* 52:664–670, June 1962.

Seeman, Melvin, and John W. Evans. Apprenticeship and Attitude Change. *Amer. J. Soc.*, 67:365–378, Jan. 1962.

Howland, Daniel. Approaches to the Systems Problem. *Nurs. Res.*, 12:172–174, Summer 1963.

Howland, Daniel. A Hospital System Model. *Nurs. Res.*, 12:232–236, Fall 1963.

Study of "The Nurse-Monitor in a Patient Care System" at The Ohio State University, *Nurs. Res.*, 12:252, Fall 1963.

Howland, Daniel, and Wanda E. McDowell. The Measurement of Patient Care: A Conceptual Framework. *Nurs. Res.*, 13:4–7, Winter 1964.

A40. The Nurse Monitor in a Patient-Care System (NU 00095).

INVESTIGATORS: Howland, D., Ph.D., Professor of Industrial Engineering; McDowell, W. E., Ph.D., R.N., Associate Professor, School of Nursing; Pierce, Lillian, Ph.D., R.N., Director of Research, School of Nursing; Hamelberg, W., M.D., Professor and Chairman of the Department of Anesthesia; Whitney, D. Ransom, Ph.D., Professor of Mathematics; and Lackey, R. B., Ph.D., Assistant Professor of Electrical Engineering, The Ohio State University Research Foundation, Columbus.

In this study monitoring of patients by nurses and physicians was studied (1) to collect information regarding which changes in condition require medical or nursing evaluation; (2) to identify ensuing action by patient, doctor, and nurse; and (3) to consider how data from monitoring observations can be incorporated within a model system for organizing hospital information.

Dates: June 1963—

PUBLICATIONS: Howland, Daniel, and Wanda E. McDowell. *The Nurse-Monitor in a Patient-Care System.* Systems Research Group, Department of Industrial Engineering, The Ohio State University, Columbus, Aug. 31, 1964, 71 pp.

Howland, Daniel. Approach to Nurse-Monitor Research. *Amer. J. Nurs.*, 66:3:556–558, Mar. 1966.

Pierce, Lillian M., and Daniel Howland. The Nurse-Monitor in a Patient-Care System. *ANA Clin. Sess.*, ANA, New York, 1968.

A41. Study of the Role of the Nurse in the Clinic (GN 5880).

INVESTIGATORS: Ingles, Thelma, R.N., M.A., Associate Professor, School of Nursing; McKinney, John C., Ph.D., Chairman, Department of Sociology; Stead, Eugene A., Jr., M.D., Chairman, Department of Medicine; Bogdonoff, Morton D., M.D.; Turk, Herman, Ph.D., Assistant Professor of Sociology; and Black, Marcia, M.S., Instructor, School of Nursing, Duke University School of Nursing, Durham, N.C.

The diary notes of student nurses were analyzed to ascertain (1) scope of their clinic activities; (2) nature of their interactions with patients, student physicians, and permanent clinic personnel; and (3) extent that nurses can contribute to a therapeutic milieu.

Dates: September 1958—August 1961.

PUBLICATIONS: Black, Marcia, and Morton Bogdonoff. Altering Out-patient Nursing. *Amer. J. Nurs.*, 62:102–103, Dec. 1962.

Turk, Herman, and Thelma Ingles. *Clinical Nursing: Exploration in Role of Innovation.* F. A. Davis Co., Philadelphia, 1963, 192 pp.

Turk, Herman. Social Cohesion Through Variant Values: Evidence from Medical Role Relations. *Amer. Sociol. Rev.*, 28:28–37, Feb. 1963.

A42. Crying as a Physiological State of the Newborn Infant (NU 00055).
INVESTIGATORS: Johnson, Dorothy E., B.S.N., M.P.H., Associate Professor of Nursing; Chusid, Anita, R.N., M.S., Instructor in Pediatric Nursing; and West, Stewart, Ph.D., Associate Research Sociologist, University of California School of Nursing, Los Angeles.

To outline the physiological process of crying and return to inactive waking, 30 normal newborn babies were observed in the crying state. Manifested physical effects of spontaneous occurrences were compared with crying induced by external stressors.

Dates: June 1962—August 1963.

PUBLICATIONS: Johnson, Dorothy E., and Margo McCaffery. Crying in the Newborn Infant. *Nurs. Sci.*, 3:5: Oct. 1965.

A43. Autonomic Responses to Nursing Comfort Measures (GN 7981).
INVESTIGATOR: Kaufmann, Margaret A., R.N., Ed.D., Assistant Professor, University of California School of Nursing, Los Angeles.

The concept that quality nursing care may modify autonomic responses was put to test. Systolic blood pressure levels and electrodermal responses of patients were measured before and after such simple attentions as bed straightening and back rubbing.

Dates: January 1961—December 1961.

PUBLICATIONS: Kaufmann, Margaret A. Autonomic Responses as Related to Nursing Comfort Measures. *Nurs. Res.*, 13:45–55, Winter 1964.

Kaufmann, Margaret A., and Dorothy E. Brown. Pain Wears Many Faces. *Amer. J. Nurs.*, 61:48–51, Jan. 1961.

A44. Fact Finding Survey of Massachusetts Nursing Homes (NU 00041).
INVESTIGATORS: Kelleher, Rita P., R.N., M.S., Dean; Shaughnessy, Mary E., R.N., M.S. Assistant Professor; Walsh, John J., Ph.D.; Kenney, Helen J., Ed.D., Assistant Professor; and Murphy, Theresa M., M.S., Boston College School of Nursing, Boston.

Information on care afforded patients in 688 nursing home facilities in Massachusetts was collected to develop criteria for quality nursing home care.

Dates: May 1961—May 1963.

PUBLICATIONS: Kelleher, Rita P., and Mary E. Shaughnessy. *Fact Finding Survey of Massachusetts Nursing Homes.* Boston College School of Nursing, Boston, 1963, 191 pp.

A45. Clinical Inference in the Field of Nursing (NU 00005).
INVESTIGATORS: Kelly, Katherine, R.N., M.A., Professor, School of Nursing; and Hammond, Kenneth R., Ph.D., Director, Behavior Research Laboratory, University of Colorado, Boulder.

Theoretical and methodological concepts of cognition and perception were

extended to nursing situations. Various search strategies used by nurses in clinical practice were compared to develop ways of improving observation and inferential accuracy.

Dates: September 1961—February 1965.

PUBLICATIONS: Kelly, Katherine J. An Approach to the Study of Clinical Inference in Nursing: Utilization of the Lens Model Method to Study the Inferential Process of the Nurse. *Nurs. Res.*, 13:321–322, Fall 1964.

Hammond, Kenneth R., Katherine J. Kelly, Robert J. Schneider, and Margaret Vancini. Clinical Inference in Nursing: Analyzing Cognitive Tasks Representative of Nursing Problems. *Nurs. Res.*, 15:2:134–138, Spring 1966.

Kelly, Katherine. Clinical Inference in Nursing. I. A Nurse's Viewpoint. *Nurs. Res.*, 15:1:23–26, Winter 1966.

Hammond, Kenneth R. Clinical Inference in Nursing. II. A Psychologist's Viewpoint. *Nurs. Res.*, 15:1:27–38, Winter 1966.

Hammond, Kenneth R., Katherine J. Kelly, Robert J. Schneider, and Margaret Vancini. Clinical Inference in Nursing: Information Units Used. *Nurs. Res.*, 15:3:236–243, Summer 1966.

Hammond, Kenneth R., Katherine J. Kelly, Robert J. Schneider, and Margaret Vancini. Clinical Inference in Nursing: Revising Judgments. *Nurs. Res.*, 16:1:38–45, Winter 1967.

A46. Nursing Needs of Rural Ambulant Patients (NU 00031).

INVESTIGATORS: Kemble, Elizabeth L., R.N., Ed.D., Dean; Haynes, Margaret E., B.S., M.P.H., Instructor in Nursing, University of North Carolina School of Nursing, Chapel Hill; and Watson, June, R.N., Supervising Nurse, North Carolina Memorial Hospital, Chapel Hill.

A systematic method of intensive education was devised and applied to diabetic patients attending a rural outpatient department. The ability of the patients to follow therapeutic regimens and otherwise deal with their condition was compared with similarly diagnosed patients who did not have special instruction.

Dates: January 1961—June 1964.

PUBLICATIONS: Kemble, Elizabeth L., Margaret E. Haynes, and June D. Watson. *Nursing Needs of Rural Ambulant Patients.* School of Nursing, University of North Carolina, Chapel Hill, 1964, 64 pp.

A47. The Role Behavior of the Hospital Nurse (GN 4503).

INVESTIGATOR: Lefcowitz, Myron J., Ph.D., Research Associate, Institute of Management and Labor Relations, Rutgers University, New Brunswick, N.J.

The goal of the study was to gain understanding of the role of the hospital nurse in the context of the total hospital as a social system. The investigation was focused on answers to three questions: (1) what are the characteristics of the doctor, patient, and nurse roles? (2) how do these characteristics structure the interrelations among the three roles? (3) what are the consequences of the relationships for the patient's psycho-medical progress?

Dates: December 1955—March 1958.

PUBLICATIONS: None.

A48. Characteristics of Medical and Surgical Nurses (GN 4869).

INVESTIGATORS: Lentz, Edith M., Ph.D., Professor of Hospital Administration; and Michaels, Robert G., M.H.A., Research Assistant, University of Minnesota, Minneapolis.

Comparative data on work satisfaction of nurses in medical, surgical, and medical-surgical units were applied as a tool with which to predict satisfaction in nursing assignments.

Dates: October 1957—December 1959.

PUBLICATIONS: Lentz, Edith M., and Robert G. Michaels. Comparison Between Medical and Surgical Nurses. *Nurs. Res.*, 8:192–197, Fall 1959.

Lentz, Edith M., and Robert G. Michaels. Comparative Ratings of Medical and Surgical Nurses. *Nurs. Res.*, 9:193–202, Fall 1960.

A49. Clinical Experiments in Nursing Practice (NU 00060).

INVESTIGATORS: Leonard, Robert C., Ph.D., Assistant Professor of Research in Nursing and Sociology; Dumas, Rhetaugh G., M.S.N., Research Assistant; and Tryon, Phyllis A., M.S.N., Research Assistant, Yale University School of Nursing, New Haven, Conn.

Several hypotheses relating to nurse-patient communication were tested. These included: (1) nurse-patient shared decisions to perform nursing procedures maximize their effectiveness; (2) patient-nurse physical contact is supportive to women in labor; (3) patients' acceptance of hospitalization minimizes distress.

Dates: September 1962—October 1966.

PUBLICATIONS: Leonard, Robert C., Julina P. Rhymes, and Mary Ann Bochnak. The Effect of Nursing Activity on the Relief of Pain. *ANA Monograph*, Series No. 6, 1962.

Tryon, Phyllis A. The Effect of Patient Participation in Decision Making on the Outcome of a Nursing Procedure. Presented at ANA Convention, May 1962. Published in *ANA Monograph*, No. 19, 1962.

Dumas, Rhetaugh G., and Robert C. Leonard. The Effect of Nursing on the Incidence of Postoperative Vomiting: A Clinical Experiment. *Nurs. Res.*, 12:1:12–15, 1963.

Dumas, Rhetaugh G. Psychological Preparation for Surgery. *Amer. J. Nurs.*, 63:8:52–53, 1963.

Elder, Ruth Gale. What is the Patient Saying? *Nurs. Forum*, 2:24–37, Spring 1963.

Elms, Roslyn R., and Donna Diers. The Patient Comes to the Hospital. *Nurs. Forum*, 2:89–97, 1963.

Moran, Patricia A. Parents in Pediatrics. *Nurs. Forum*, 2:24–37, 1963.

Tryon, Phyllis A. Patient Participation vs. Patient Passivity. *Nurs. Forum*, 2:48–57, Fall 1963.

Bursten, Ben, and Donna Diers. The Problem of Pseudo-Patient Centered Orientation. *Nurs. Forum*, 3:38–50, Feb. 1964.

Dumas, Rhetaugh G., and Barbara J. Anderson. Psychological Preparation Beneficial if Based on Individual's Need. *Hosp. Top.*, 42:79–81, 124, May 1964.

Leonard, Robert C., and Florence S. Wald. Toward Development of Nursing Practice Theory. *Nurs. Res.*, 13:4, 1964.

Thornton, Thelma N., and Robert C. Leonard. Experimental Comparison of Effectiveness and Efficiency of Three Nursing Approaches. *Nurs. Res.*, 13:122–125, Spring 1964.

Tryon, Phyllis A., and Robert C. Leonard. A Clinical Test of Patient Centered Nursing. *J. Health Hum. Behav.*, Nov. 1964.

Tryon, Phyllis A., and R. C. Leonard. The Effect of Patient Participation on Procedure Outcome. *Nurs. Forum*, 3:79–89, 1964.

Anderson, Barbara, H. Mertz, and R. C. Leonard. Two Experimental Tests of a Patient-Centered Admission Process. *Nurs. Res.*, 14:151–157, 1965.

Dumas, Rhetaugh G., Robert C. Leonard, and Barbara Anderson. The Importance of the Expressive Function in Preoperative Preparation. *Social Interaction and Patient Care*, J. K. Skipper and R. C. Leonard, eds., J. B. Lippincott Co., Philadelphia, 1965.

Dumas, Rhetaugh G. *Stress as a Theoretical Construct and Its Implications for Nursing Education.* Second Inter-University Faculty Work Conference, Mass., June 1965, pp. 28–45.

Ellison, Margaret D., Donna Diers, and R. C. Leonard. The Uses of Behavioral Sciences in Nursing: Further Comment. *Nurs. Res.*, 14:71–72, 1965.

Leonard, Robert C. Review of "Foundations of Behavioral Research" by F. N. Kerlinger. *Nurs. Res.*, 14:144–145, 1965.

Leonard, Robert C., Margaret Ellison, and Donna Diers. The Uses of Behavioral Sciences in Nursing: Further Comment. *Nurs. Res.*, 14:1:71–72, Winter 1965.

Leonard, Robert C., Mary B. Tarasuk, and Julina Rhymes. An Experimental Test of the Importance of Communication Skills for Effective Nursing. *Social Interaction and Patient Care.* James K. Skipper and Robert C. Leonard, eds. J. B. Lippincott Co., Philadelphia, 1965.

Leonard, Robert C., and James K. Skipper. *Social Interaction and Patient Care.* J. B. Lippincott Co., Philadelphia, 1965.

Mahaffy, Perry R. The Effect of Hospitalization on Children Admitted for Tonsillectomy and Adenoidectomy. *Nurs. Res.*, 14:12–19, 1965.

Tryon, Phyllis A., and Robert C. Leonard. Giving the Patient an Active Role. *Social Interaction and Patient Care.* J. K. Skipper, and Robert C. Leonard, eds. J. B. Lippincott Co., Philadelphia, 1965, pp. 120–127.

Leonard, Robert C., James K. Skipper, and Powhatan J. Wooldridge. Small-Sample Field Experiments for Evaluating Patient Care. *Health Serv. Res.*, 2:46–60, 1967.

Diers, Donna, and R. C. Leonard. Interaction Analysis in Nursing Research. *Nurs. Res.*, 15:3:225–228, Summer 1966.

Dumas, Rhetaugh G. Utilization of a Concept of Stress as a Basis for Nursing Practice. *ANA Monograph Series*, June 1966.

Elms, Roslyn R., and Robert C. Leonard. Effects of Nursing Approaches During Admission. *Nurs. Res.*, 15:1:39–48, Winter 1966.

Johnson, Jean I. The Influence of Purposeful Nurse-Patient Interaction on Patient's Postoperative Course. *ANA Monograph Series*, June 1966.

Tryon, Phyllis A. Use of Comfort Measures as Support During Labor. *Nurs. Res.*, 15:2:109–118, Spring 1966.

Anderson, Barbara, and R. C. Leonard. Personalizing the Admission Process in a Psychiatric Hospital. *Amer. J. Psychol.*, 120:890–893, 1966.

A50. The Dynamics of Nursing in Ambulatory Patient Care (NU 00145).

INVESTIGATORS: Lewis, Charles E., M.D., Sc.D., Chairman of Preventive Medicine; and Thurston, Hester, M.S., Associate Professor of Nursing, University of Kansas Medical Center, Kansas City.

The ability of nurses in a medical outpatient department to identify and meet the needs of ambulatory patients was evaluated. A nurse, operating under the supervision of a physician, saw several groups of patients who had chronic degenerative disease and psychophysiologic disorders, and a control group of patients with similar problems continued to be seen in a regular clinic. A panel of physicians evaluated the technical aspects of patient care.

Dates: June 1965—November 1968.

PUBLICATIONS: Lewis, Charles E., and Barbara A. Resnik. Nurse Clinics and Progressive Ambulatory Patient Care. *New Eng. J. Med.*, 277:23:1236–1241, Dec. 7, 1967.

Lewis, Charles E. *The Dynamics of Nursing in Ambulatory Patient Care*. University of Kansas Medical Center, 1969, processed, 69 pp.

A51. Nurse Specialists' Effect on Recovery in Tuberculosis (NU 00094).

INVESTIGATORS: Little, Dolores E., R.N., M.N., Assistant Professor; Tschudin, Mary S., R.N., Ph.D., Dean; Carnevali, Doris, R.N., M.N., Instructor, University of Washington School of Nursing, Seattle.

Using the clinical resources of Firland Sanatorium, Seattle, the investigation was concerned with learning whether patient-centered nursing provided by specialists in the care of tuberculosis patients significantly affected their recovery.

Dates: June 1963—November 1965.

PUBLICATIONS: Carnevali, Doris, and Dolores Little. Tuberculosis Patients and Nurse Specialists. *Nurs. Outlook*, 13:78–80, May 1965.

Little, Dolores, and Doris Carnevali. Nurse Specialist Effect on Tuberculosis. *Nurs. Res.*, 16:4:321–326, Fall 1967.

Dambacher, Elizabeth. Critique of the Study: Nurse Specialist Effect on Tuberculosis. *Nurs. Res.*, 16:4:327–332, Fall 1967.

A52. Ways of Improving Nursing Service (GN 4507).

INVESTIGATORS: Mellow, June, R.N., M.S., Research Associate in Nursing Therapy, Massachusetts Mental Health Center; Sharaf, Myron R., Research Associate, Center for Sociopsychological Research, Massachusetts Mental Health Center; and Arsenian, John, Ph.D., Director of Psychological Research, Boston State Hospital, Boston.

Under the direction of psychiatrists, selected nursing personnel worked on a one-to-one basis with psychotic patients to ascertain the degree to which increased frequency and intensity of communication improved the patient, afforded nurse satisfaction, and raised the level of psychiatric nursing skill.
Dates: January 1956—November 1961.
PUBLICATIONS: Robinson, Alice M., June Mellow, Phyllis Hurteau, and Marc A. Fried. The Role of the Nurse in a Large Mental Hospital. *Amer. J. Nurs.*, 55:44–144, Apr. 1955.

Mellow, June, Alice M. Robinson, Phyllis Hurteau, and Marc A. Fried. Research in Psychiatric Nursing: Nursing Therapy with Individual Patients. *Amer. J. Nurs.*, 55:572–575, May 1955.

Robinson, Alice M., June Mellow, and Marc A. Fried. Research in Psychiatric Nursing: The Psychiatric Head Nurse. *Amer. J. Nurs.*, 55:704–707, June 1955.

Mellow, June. Research in Nursing Therapy. In *The Improvement of Nursing Through Research.* Catholic University Press, Washington, D.C., 1959, pp. 100–112.

A53. Intensive Nursing Care in Acute Myocardial Infarction (NU 00096).
INVESTIGATORS: Meltzer, Lawrence E., M.D., Director, Section of Clinical Investigation; Pinneo, Rose, M.S., R.N., Research Associate, Section of Clinical Investigation; and Ferrigan, Madelyn P., B.S., Research Associate, Prebyterian-University of Pennsylvania Medical Center, Philadelphia.
The twofold purpose of the investigation was (1) to lower fatalities from heart disease by continuous professional nursing care and electronic monitoring of acute heart patients during their first 72 hours of hospitalization; and (2) to develop the most effective design for, and the special nursing skills required in, a coronary intensive care unit for treatment of patients with myocardial infarction.
Dates: June 1963—May 1967.
PUBLICATIONS: Meltzer, L. E. The Use of Anticoagulants. *JAMA*, 184:31, 1963.

Meltzer, L. E., F. Palmon, M. Ferrigan, J. Pekover, H. Bauer, and J. R. Kitchell. Prothrombin Levels and Fatality Rates in Acute Myocardial Infarction. *JAMA*, 187:986–993, 1964.

Meltzer, L. E. Concept and System for Intensive Coronary Care. *Acad. Med. New Jersey Bull.*, 10:304–311, 1964.

Meltzer, Lawrence E. Cooperative Study: Sodium Heprarin vs. Sodium Warfarin in Acute Myocardial Infarction. Conclusions Based on Study of 798 Cases at 13 Hospitals. *JAMA*, 189:7:555–562, 1964.

Meltzer, Lawrence E., Rose Pinneo, and J. Roderick Kitchill. *Intensive Coronary Care—A Manual for Nurses.* Philadelphia-Presbyterian Hospital, Philadelphia, 1965. 200 pp.

Meltzer, L. E. Coronary Care, Electrocardiography, and the Nurse. *Amer. J. Nurs.*, 65:12:63–67, 1965.

Meltzer, L. E., and J. R. Kitchell. Danger in Cardioversion: Height of R and T Waves. *JAMA*, 191:187, 1965.

Meltzer, L. E., and J. R. Kitchell. Intensive Care Units for Patients with Acute Myocardial Infarction. *Lancet* 1:106, 1965.

Meltzer, L. E. Coronary Units Can Help Decrease Death. *Mod. Hosp.*, 104:102–103, 1965.

Meltzer, L. E., N. Aytan, D. D. Yun, M. E. Ural, F. P. Palmon, and J. R. Kitchell. A Trial Fibrillation Treated with Direct Current Countershock. *Arch. Int. Med.*, 115:537–541, 1965.

Rutman, J. Z., L. E. Meltzer, J. R. Kitchell, R. J. Rutman, and P. George. An Effect of Manganese and Other Biological Metal Ions on *in vitro* Gluconeogenesis. *Amer. J. Physiol.*, 208:841–846, 1965.

Meltzer, Lawrence E. Cooperative Study: Death Rate Among 795 Patients in the First Year After Myocardial Infarction. *JAMA* 197:11:906–908, 1966.

Meltzer, L. E., J. R. Kitchell, and R. Pinneo. Training Techniques for the Coronary Care Unit. *Amer. J. Cardiol.*, 17:736–747, May 1966.

Kitchell, J. R., and L. E. Meltzer. The Concept of Intensive Coronary Care. *Tex. Rpts. Biol. Med.* 24 (Supp.) :309–316, 1966.

Meltzer, Lawrence E., and J. Roderick Kitchell. The Incidence of Arrhythmias Associated with Acute Myocardial Infarction. *Progr. Cardiov. Dis.*, 9:1 50–63, 1966.

Meltzer, Lawrence E., and J. Roderick Kitchell. *The Current Status of Intensive Coronary Care.* Proceedings of a Symposium. The Charles Press, New York, July 15, 1966.

Ferrigan, Madelyn. A New Nursing Horizon, The Cardiac Nurse Specialist. *Intl. Nurs. Rev.*, 13:2:10–11, Mar.-Apr. 1966.

Ferrigan, Madelyn. They Guard Against Heart Attack. *Today's Health*, 44:6:10–11, June 1966.

Symposium on Cardiac-Care Units. Chicago, May 12, 1966. *Hosp. Top.*, Nov. 1966.

Pinneo, Rose. Nursing in a Coronary Care Unit. *Cardiov. Nurs.*, The American Heart Association Inc., 3:1, Jan.-Feb. 1967.

Pinneo, Rose. A New Dimension in Nursing Intensive Coronary Care. *Amer. Assn. Indus. Nurses J.*, Feb. 1967.

Meltzer, Lawrence E., and J. Roderick Kitchell. *Cardiac Pacing and Cardioversion*, The Charles Press, New York, 1967.

Meltzer, Lawrence E. Acute Myocardial Infarction, in *Acute Myocardial Infarction*, M. Oliver and D. Julian, eds. J. Livingstones, London, England, 1968.

Meltzer, Lawrence E., Rose Pinneo, Madelyn M. Ferrigan, J. Roderick Kitchell, J. Ipsen, and J. Bearman. *Intensive Coronary Care, an Analysis of the System and the Acute Phase of Acute Myocardial Infarction.* The Charles Press, New York, 1969.

Meltzer, Lawrence E. *Intensive Coronary Care. A Multimedia Instructional System for Nurses. Instructor's Manual.* The Charles Press Publishers, Inc., Philadelphia, 1969. 219 pp.

Meltzer, Lawrence E. *Intensive Coronary Care. A Multimedia Instruction System for Nurses. Student's Workbook.* The Charles Press Publishers, Inc., Philadelphia, 1969. 155 pp.

A54. Nursing Service and Patient Care: An Experiment in Staffing (GN 6547).

INVESTIGATORS: New, Peter Kong-ming, Ph.D., Research Sociologists; and Nite, Gladys, R.N., M.A., Research Associate, Community Studies, Inc., Kansas City, Mo.

Nine experimental stations were set up in two Kansas City hospitals to focus examination on shifting ratios of hours of nursing care and of professional nurses, to total nursing personnel.

Dates: September 1959—August 1960.

PUBLICATIONS: New, Peter Kong-ming, Gladys Nite, and Josephine Callahan. Study of Staffing Patterns Shows Too Many Nurses May Be Worse than Too Few. *Mod. Hosp.*, 93:103–108, Oct. 1959.

New, Peter Kong-ming, Gladys Nite, and Josephine M. Callahan. *Nursing Service and Patient Care: A Staffing Experiment.* Community Studies, Inc., Kansas City, Mo., 1959, 124 pp.

New, Peter Kong-ming, and Gladys Nite. Staffing and Interaction. *Nurs. Outlook*, 8:396–400, July 1960.

Nite, Gladys. Learning Every Day. *Amer. J. Nurs.*, 60:1761–1764, Dec. 1960.

A55. A Study of Nurse Action in Relief of Pain (NU 00004).

INVESTIGATORS: Newton, Mildred E., R.N., Ed.D., Director, Ohio State University School of Nursing; Hunt, William E., M.D., Professor of Neurosurgery; McDowell, Wanda E., Ph.D., Associate Professor of Nursing; Howland, Daniel, Ph.D., Associate Professor of Industrial Engineering; and Ransom, Whitney D., Ph.D., Professor of Mathematics, The Ohio State University Research Foundation, Columbus.

The investigation analyzed patients' physiological and psychological reactions to pain, and nurses' decisions and actions to effect alleviation.

Dates: January 1962—August 1964.

PUBLICATIONS: Hanken, Albert F. Pain and Systems Analysis. *Nurs. Res.*, 15:139–143, Spring 1966.

A56. Child Dependency and Nurse Nurturance (GN 7302).

INVESTIGATORS: O'Neill, Ruth Clark, R.N., M.A. Instructor in Pediatrics; Bush, Barbara Noel, M.A., Instructor Maternal and Child Health Nursing; Griffin, Jacqueline, B.A., Teaching Assistant, Clinical Psychology; Smith, Kathryn, M.A., Assistant Professor of Nursing, University of California School of Nursing, San Francisco; and O'Neill, Ralph C., M.A., Psychologist, South San Francisco Public Schools.

The dependent behaviors of hospitalized children were observed to assess the effects of nurses' nurturance or denial of nurturance on the feeling tone of young patients.

Dates: September 1960—January 1962.

PUBLICATIONS: None.

A57. Maternity Nursing Care and Patient Welfare (GN 4812).

INVESTIGATORS: Parks, John, M.D., Professor of Obstetrics and Gynecology; Russell, Caroline, R.N., M.A., Project Director; Havron, M., Dean, Ph.D., Senior Research Scientist; McGrath, Joseph E., Ph.D., Research Scientist, The George Washington University School of Medicine, Washington, D.C.

Data from health agencies and private physicians in the District of Columbia were analyzed to ascertain the amount and types of nursing services required throughout the maternity cycle, and to establish criteria for training nursing personnel at various levels to meet maternity and newborn needs.

Dates: May 1957—November 1961.

PUBLICATIONS: None.

A58. The Role of a Nurse in Medical Education (GN 5621).

INVESTIGATORS: Platou, R. V., M.D., Professor and Head of the Department of Pediatrics; Nordmann, Beverly, B.S., Instructor, Department of Pediatrics; Reissman, Leonard, Ph.D., Assistant Professor of Psychology; Sledge, Sarah H., M.S., Research Assistant, Department of Psychology; Malone, David, M.A., Graduate Student; and Lancaster, Robert, M.D., Assistant Professor of Psychiatry, Tulane University School of Medicine, New Orleans, La.

The professional interaction between nurses and doctors, and ways in which physicians and medical students become acquainted with nursing procedures were observed. In the study, a nurse educator formally lectured before groups of medical students, and demonstrated nursing procedures for pediatric patients.

Dates: January 1958—November 1962.

PUBLICATIONS: Platou, R. V., L. Reissman, S. H. Sledge, and D. H. Malone. Medical Students' Attitudes Toward Teachers and Patients. *J. Med. Educ.*, 35:857–864, Sept. 1960.

Nordmann, Beverly F., and others. The Nurse's Role in Medical Education. *Nurs. Outlook*, 11:185–187, Mar. 1963.

Platou, Ralph V., Leonard Reissman, Sarah H. Sledge, and Beverly F. Nordmann. *The Role of a Nurse in Medical Education.* Tulane University, New Orleans, La. 1965. 2 vol. 423 pp.

A59. Patient Care Classification: Methods and Application (NU 00080).

INVESTIGATORS: Preston, Ruth A., R.N., M.S., Instructor, Department of Epidemiology and Community Medicine; and White, Kerr, M.D., Professor and Chairman, Department of Epidemiology and Community Medicine, University of Vermont College of Medicine, Burlington, Vt.

Criteria for classifying hospital patients according to the extent of professional care required were developed and applied. The needs of patients in intensive, intermediate, and self-care classifications were related to those of defined populations in communities.

Dates: September 1963—December 1966.

PUBLICATIONS: White, Ruth Preston, Dana Quade, and Kerr L. White. *Patient Care Classification: Methods and Application.* Dept. of Medical Care and Hospitals, School of Hygiene and Public Health, The Johns Hopkins University, Baltimore, July 1967, 61 pp.

A60. Nursing Care of Premature Infants in the Home (NU 00093).
INVESTIGATORS: Richardson, Elizabeth H., R.N., M.S., Assistant Professor of Nursing; Harvey, Lillian H., R.N., M.A., Professor and Dean of Nursing; Chandler, Viola T. White, R.N., M.A., Associate Professor, School of Nursing, Tuskegee Institute; Caliman, Alvis W., Ph.D., Psychologist, Veterans Administration Hospital; Campbell, Thomas, M.D., Chief Pediatrician; Mitchell, Joseph R., M.D., Chief, Obstetric Service; Smith, Stanley H., Ph.D.; and Trigg, Louise, A.B., John A. Andrew Hospital, Tuskegee Institute, Tuskegee, Ala.

To increase the survival rate of premature children the study investigated the kinds of problems parents face in caring for such children after their return from the hospital; the effect on home care of planned instruction of parents by public health nurses; and the relationship of the quality of home care to the survival of the prematurely born.

Dates: January 1963—December 1967.

PUBLICATIONS: Richardson, Elizabeth H., Viola T. White Chandler, and Lillian H. Harvey. *Effect of Nursing Care on Selected Aspects of Premature Infant Welfare in the Home.* Tuskegee Institute, Ala., 1967, 167 pp.

A61. Circulatory and Postural Factors in Pressure Sores (NU 00146).
INVESTIGATORS: Sachs, Marvin L., M.D., Associate in Medicine; Miller, Marion E., R.N., M.S.N.; Montgomery, Hugh, M.D., Professor of Medicine; and Erdman, William J. II, M.D., Professor of Physical Medicine and Rehabilitation, University of Pennsylvania, Philadelphia.

The School of Nursing and Departments of the School of Medicine, University of Pennsylvania, are cooperating in designing and testing supporting devices to relieve the skin pressure and reduce the incidence of bed sores in patients with arterial disease. Skin temperature was measured, various surfaces used in supporting devices were compared, and oxygen tension under skin pressure was estimated.

Dates: 1964—.

PUBLICATIONS: Sachs, Marvin L., and Marian E. Miller. Distribution and Effects of Pressure on Weight Bearing Skin Surfaces. *Clin. Res.*, 15:343, Apr. 1967.

Miller, Marian E. The Appearance of Skin under Pressure: Implications for Improving the Care of Patients with Pressure Sores. *Amer. J. Nurs.*, 67:2584, Dec. 1967.

Sachs, Marvin L., and Marian E. Miller. *Pressure Sores.* Los Angeles, John Sutherland Productions Inc., 1969. Processed.

A62. Sensory Deprivation and Effective Nurse Interventions (NU 00068).
INVESTIGATORS: Schlotfeldt, Rozella M., R.N., Ph.D., Dean and Professor of Nursing; and Berthold, Jeanne S., R.N., Ph.D., Assistant Professor of Nursing, Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland.

How impairment of sight, hearing, and touch among hospital patients is related to their social disorientation was investigated. The study also directed attention to the question of whether selected nursing measures can result in increased social responsiveness of patients with altered sensory abilities.

Dates: January 1963—.

PUBLICATIONS: Berthold, Jeanne S. "Nursing Interventions in Sensory Deprivation Situations". Paper read at the Ohio State Nurses Association, Columbus, Oct. 1964, processed.

Jackson, C. W., Jr. "Toward the Establishment of Baselines in Sensory Deprivation Research." Paper read at the American Psychological Association, Los Angeles, Calif., Sept., 1964, (a), processed.

Jackson, C. W., Jr. "Overview of the 'Field' of Sensory Deprivation." Paper read at the Ohio State Nurses Association, Columbus, Ohio, Oct., 1964, (b), processed.

Jackson, C. W., Jr., and Margaret O'Neil. *Experiences Associated with Sensory Deprivation Reported for Patients Having Eye Surgery.* To be published by Ross Laboratories as part of the proceedings of the Ross Round Table on Disturbances in Sensory Input in Nursing Practice and Research, Ross Laboratories, Marina Del Rey, Calif., Oct., 1965.

Jackson, C. W., Jr., and J. C. Pollard. Some Non-Deprivation Variables Which Influence the "Effects" of Experimental Sensory Deprivation. *J. Abnorm. Psychol.*, processed.

A63. Nursing Needs of Elderly Chronically Ill Ambulatory Patients (NU 00014).

INVESTIGATORS: Schwartz, Doris, R.N., M.A., Public Health Nursing Coordinator; Reader, George G., M.D., Professor of Medicine, Cornell University Medical College; Henley, Barbara, M.A., Research Assistant, Department of Social Service, New York Hospital; Zeitz, Leonard, M.A., Research Assistant; and Wang, Mamie, R.N., M.A., Research Assistant, Cornell University, New York.

The aim of the study was to ascertain the nursing needs of a random sample of elderly, ambulatory, chronically ill patients who attend the general medical clinic in a large teaching hospital. One of the objects of the investigation was to discover the psychological needs of the same group of patients and to develop an instrument to provide data quickly and accurately regarding their significant needs.

Dates: June 1958—August 1964.

PUBLICATIONS: Schwartz, Doris. Uncooperative Patients? *Amer. J. Nurs.*, 58:75–77, Jan. 19[illegible]

Schwartz, Doris, Alice Ullman, and George Reader. The Nurse, Social Worker, and Medical Student in a Comprehensive Care Program. *Nurs. Outlook*, 6:39–41, Jan. 1958.

Goodrich, Martha, and Doris Schwartz. Some Changes in the Sleeping and Eating Patterns of Fifty Patients with Long Term Illnesses. *J. Chronic. Dis.*, 9:63–73, Jan. 1959.

Schwartz, Doris. Public Health Nurses Furnish Vital Facts. *Public Health Rep.*, 75:232–233, Mar. 1960.

Schwartz, Doris. Communication Between Hospital Staff and Community Agencies: A Study of Referrals to the Public Health Nurse. *Amer. J. Public Health*, 50:1122–1125, Aug. 1960.

Curtis, Elizabeth. *Medication Errors Among Twenty-six Patients on the Home Care Program.* Research Memo. No. 11, Series B. Cornell New York Hospital Medical Center, New York, 1960, processed, 8 pp.

Schwartz, Doris, Mamie Wang, Barbara Henley, and George Reader. Nursing Needs of Chronically Ill Ambulatory Patients. *Nurs. Res.*, 9:185–189, Fall 1960.

Henley, Barbara M. Interprofessional-Give-and-Take Research on Patient Care. *Social Work*, 6:89–96, Jan. 1961.

Curtis, Elizabeth E. Medication Errors Made by Patients. *Nurs. Outlook*, 9:290, May 1961.

Schwartz, Doris. A Human Word Bank. *Tomorrow's Nurse*, 2:9–12, Dec. 1961—Jan. 1962.

Schwartz, Doris. Research in Patient Care. *Nurs. Outlook*, 10:108–110, Feb. 1962.

Schwartz, Doris, Mamie Wang, Leonard Zeitz, and Mary Goss. Food Habits of Elderly, Chronically Ill Patients Attending a General Medical Clinic. *Nurs. Res.*, 2:248–249, Fall 1962.

Schwartz, Doris, Mamie Wang, Leonard Zeitz, and Mary Goss. Leisure Time Activities of Elderly, Chronically Ill Clinic Patients. *Nurs. Res.*, 2:249, Fall 1962.

Schwartz, Doris, Mamie Wang, Leonard Zeitz, and Mary Goss. Medication Errors Made by Elderly, Chronically Ill Patients. *Amer. J. Public Health*, 52:2018–2029, Dec. 1962.

Schwartz, Doris, Mamie Wang, Leonard Zeitz, and Mary Goss. Problems of Ambulation and Travelling Among Elderly, Chronically Ill Patients. *Nurs. Outlook*, 12:165–171, Summer 1963.

Schwartz, Doris, Barbara Henley, and Leonard Zeitz. *The Elderly Ambulatory Patient: Nursing and Psychological Needs.* New York, Macmillan, 1964. 356 pp.

A64. Development of a Tool To Measure Patient Behavior (GN 8922).

INVESTIGATOR: Sharp, Elizabeth S., M.S.N., Yale University School of Nursing, New Haven, Conn.

An instrument was constructed to describe the vocal and non-vocal behavior of patients, and to measure changes in welfare attributable to nurse response to signs of discomfort.

Dates: September 1961—August 1962.

PUBLICATIONS: Leventhal, Howard, and Elizabeth Sharp. Facial Expressions as Indicators of Distress. *Affect, Cognition, and Personality. Empirical Studies.* Tomkins, Sylvan S., and Carroll E. Izard, eds. Springer Publishing Co., New York, 1965, pp. 296–318.

Leventhal, Howard. Fear Communications in the Acceptance of Preventive Health Practices. *Bull. New York Acad. Med.*, 41:11:1144–1168, Nov. 1965.

A65. Exploration of Parental Utilization of Nursing Services for Children (NU 00142).

INVESTIGATORS: Simon, Helen M., R.N., Ph.D., Project Director, Bureau of Public Health Nursing; and Rosenblatt, Daniel, Ph.D., Director, Social Science Research Activities, New York City Department of Health. Sponsoring Agency: Medical and Health Research Association of New York, Inc., New York.

Parents use of New York City's health services for infants and preschool

children was analyzed to relate utilization to quality of care provided, and to establish criteria for effective services.
Dates: June 1964—March 1968.
PUBLICATIONS: None.

A66. Patient Activity as a Measure of Patient Welfare (GN 07610).
INVESTIGATOR: Simon, J. Richard, Ph.D., Assistant Professor of Psychology, University of Iowa, Iowa City, Iowa.

The activity of hospitalized patients was analyzed (1) to develop indexes of patient welfare, (2) to relate the indexes to existing measures, and (3) to explore the effect of inservice educational programs on the activity patterns of patients.
Dates: October 1960—September 1962.
PUBLICATIONS: Simon, J. Richard. The Criterion Problem in Nursing Research. *Bull. Iowa Nurses' Assn.*, 13:3–5, Jan. 1959.

Simon, J. Richard, and Marian E. Olson. Assessing Job Attitudes of Nursing Service Personnel. *Nurs. Outlook*, 8:424–427, Aug. 1960.

Simon, J. Richard, and Sally S. Chastain. Take a Systematic Look at Your Patients. *Nurs. Outlook*, 8:509–512, Sept. 1960.

Simon, J. Richard. Patient Activity as a Measure of Patient Welfare. *Hosp. Manage.*, 90:95–100, Sept. 1960.

Simon, J. Richard. Systematic Ratings of Patient Welfare. *Nurs. Outlook*, 9:432–436, July 1961.

Simon, J. Richard. Effects of Age on the Behavior of Hospitalized Patients. *J. Geront.*, 19:3, July 1964.

A67. Comparative Evaluation of Hospital Beds (GN 4792).
INVESTIGATORS: Smalley, Harold E., Ph.D., Assistant for Management Engineering, Schools of Health Professions; Dudek, Richard A., Ph.D., Research Associate in Management Engineering Schools of Health Professions; Gailani, Dorothy, R.N. M. Litt., Research Associate in Nursing, University of Pittsburgh; Emerzian, A. D. Joseph, Ph.D., Associate Professor of Industrial Administration, University of Connecticut; Ganong, Warren L., B.S., Research Engineer, and Turkes, Walter, M.S., Associate Dean, School of Engineering, University of Pittsburgh, Pittsburgh, Pa.

Hospital beds of various designs and manufacture were compared to determine criteria of clinical measures for future use in testing bed characteristics.
Dates: June 1956–November 1960.
PUBLICATIONS: Ganong, Warren L. *Comparative Evaluation of Hospital Beds.* Final Report. Engineering Research Division, Industrial Engineering Section, University of Pittsburgh, Pittsburgh, Pa., Nov. 1960, 234 pp.

Dudek, Richard, and Dorothy M. Gailani. Frequency of Nursing Procedures Performed at the Bedside. *Nurs. Res.*, 9:43–45, Winter 1960.

Smalley, Harold E., Edward S. Ferrell, and John R. Freeman. *Hospital Bed Study.* Research Publication Number 1, Hospital Management Systems Society, Atlanta, Ga., 1963. 45 pp.

A68. Disposable Versus Reprocessed Hospital Supplies (NU 00018).

INVESTIGATORS: Smalley, Harold E., Ph.D., Professor of Industrial Engineering; Emerzain, A. D. Joseph, Ph.D., Associate Professor of Industrial Administration, University of Connecticut; Owen, Louelia, R.N., M.S, Research Assistant; and Newberry, Thomas L., Jr., M.S.I.E., Assistant Research Engineer, Engineering Experiment Station, Georgia Institute of Technology, Atlanta, Ga.

These investigators at the Georgia Institute of Technology in cooperation with Emory University Medical Center and Atlanta area hospitals, were concerned with development of a practical decision system for ascertaining the relative economic merits of disposable as against processed hospital supplies. Dates: January 1959—June 1964.

PUBLICATIONS: Smalley, Harold E., Richard A. Dudek, and Edward J. Gerner, Jr. How Methods Engineering Gets Results. *Mod. Hosp.*, 92:93–96, May 1959.

Smalley, Harold E., Industrial Engineering in Hospitals. *J. Indus. Eng.*, 10:171–175, May-June 1959.

Smalley, Harold E. Industrial Engineering in Hospitals. *J. Indus. Eng.*, tice Is the Test of Methods Engineering. *Mod. Hosp.*, 93:79–81, Sept. 1959.

Smalley, Harold E. Organized Methods Improvement. *The Yearbook of Modern Nursing.* G. P. Putnam's Sons, New York, 1959, p. 32.

Smalley, Harold E. To Buy or Not To Buy? *Res. Eng.*, Ga. Tech. Engineering Experiment Station, Dec. 1960, pp. 20–23.

Ekey, David C., Joseph B. Talbird, and Thomas L. Newberry. Inventory Recorder Points for Conditions of Variable Demand and Lead Time. *J. Indus. Eng.*, 12:32–34, Jan. 1961.

Emerzian, Joseph, and Harold E. Smalley. Hospital Supply Decision, Part I: The Nature of Preference Systems. *Hosp.*, 36:76–83, June 1962.

Emerzian, Joseph, and Harold E. Smalley. Hospital Supply Decision, Part II: A Conceptual Model. *Hosp.*, 36:88–101, June 1962.

Irwin, Pamela H., and Harold E. Smalley. Disposable or Non-disposables for Patient Safety? *Hosp.*, 37:66–70, June 1963.

Slesinger, Reuben E., and Harold E. Smalley. The Economic Apparatus to Determine the Value of Hospital Care. *Hosp. Adm.*, 8:30–44, Summer 1963.

Smalley, Harold E., John R. Freeman, Howard W. Woods, Jr., and A. D. Emerzian. Hospital Supply Decisions: Cost Factors in Purchasing. *Hosp. Manage.*, 97:78–85, Jan. 1964.

Woods, Howard W., Jr., John R. Freeman, Howard E. Smalley, and A. D. Emerzian Hospital Supply Decisions: Cost Predictions. *Hosp. Manage.*, 97:92–102, Feb. 1964.

Smalley, Harold E., John R. Freeman, Howard W. Woods, Jr., and A. D. Joseph Emerzian. Hospital Supply Decisions: Inventory Policies. *Hosp. Manage.*, 97:92–97, Mar. 1964.

Woods, Howard W., Jr., John R. Freeman, Harold E. Smalley, and A. D. Emerzian. Hospital Supply Decisions: Order Costs. *Hosp. Manage.*, 97:135–137, Apr. 1964.

Freeman, John R., Harold E. Smalley, Howard W. Woods, Jr., and A. D. Emerzian. Hospital Supply Decisions: Carrying Costs. *Hosp. Manage.* 97:78–83, May 1964.

Freeman, John R., Harold E. Smalley, A. D. Emerzian, and Pamela H. Irwin. Hospital Supply Decisions: Monetary Costs. *Hosp. Manage.*, 97:95–111, June 1964.

Smalley, Harold E. Hospital Systems Research. Hosp. Adm., 11:1, Winter 1966.

A69. Study of Effects of Different Nursing Actions (GN 6265).

INVESTIGATOR: Smith Dorothy M., R. N., M.Ed., Dean, University of Florida, College of Nursing, Gainsville, Fla.

Personal approaches that help a nurse to establish rapport with her patient were differentiated from those behaviors that prevent her from finding out what a patient is feeling, expecting, wanting.

Dates: March 1959—February 1960.

PUBLICATIONS: None.

A70. Interaction of Patients and Staff on a Medical Ward (NU 00003).

INVESTIGATORS: Smith, Dorothy M., R.N., M.Ed., Dean of the College of Nursing and Chief of the Nursing Staff, Teaching Hospital; Martin, Samuel P., M.D., Professor and Head of the Department of Medicine, College of Medicine; and Taylor, Carol D., M.A., Research Associate, College of Nursing, University of Florida, School of Medicine, Gainesville, Fla.

An experimental milieu affording optimal communication between patient and hospital staff was provided in order to study its effect in identifying and relieving patient stress on a medical ward.

Dates: September 1962—September 1963.

PUBLICATIONS: Houtz, Duane. The Unit Manager Plan Provides Administrative Control of Wards. *Mod. Hosp.*, 99:75–76, Aug. 1962.

Martin, Samuel P. Medical Staff Agrees: Unit Plan is Good for Patients. *Mod. Hosp.*, 99:76–77, Aug. 1962.

Mercandante, Lucille T. Unit Manager Plan Gives Nurses Time to Care for the Patients. *Mod. Hosp.*, 99:73–75, Aug. 1962.

Taylor, Carol. How Unit Manager System Works for Us. *Mod. Hosp.*, 99:69–73, Aug. 1962.

A71. Investigation of Interruptions in Nursing Care (GN 5363).

INVESTIGATORS: Smith, Joyce G., R.N., B.S., Research Supervisor; Siegelaub, Abraham, M.D., Division of Social Medicine, Monefiore Hospital, Bronx, N.Y.

Interruptions encountered by the staff nurse as she endeavors to give nursing care were studied with the object of discovering their nature, cause, and frequency, and to develop administrative procedures for reducing their number.

Dates: June 1957—August 1961.

PUBLICATIONS: Smith, Joyce. What Stops You? *Amer. J. Nurs.*, 59:848–851, June 1959.

A72. Study of Nursing in a General Hospital (NU 00012).

INVESTIGATORS: Snoke, Albert W., M.D., Director, and Ryle, Anna E., M.S., Director of Nursing, Grace-New Haven Community Hospital; Duff, Raymond, M.D., M.P.H., Assistant Professor of Pediatrics and Sociology; Hollingshead, A.B., Ph.D., Chairman Department of Sociology; Beeson, Paul B., M.D., Professor of Medicine, and Plymire, Margaret M., R.N., Ph.D., Yale University, New Haven, Conn.

Professional activities and working relationships of nurses with medical personnel were examined with a view to increasing nurses' participation in medical decisions and total patient care.

Dates: January 1959—March 1968.

PUBLICATIONS: Duff, Raymond S., and August B. Hollingshead. *Sickness and Society*, Harper and Row, New York, 1968, 390 pp.

A73. Employer Expectations vs. Staff Nurse Performance (GN 4872).

INVESTIGATORS: Spaney, Emma, Ph.D., Assistant Professor of Psychology; Matheney, Ruth, R.N., Ed.D., Chairman, Nursing Science Department; College Lecturers: Jennings, Louise A., Clark, H. Melissa, Ehrhart, Alice M., and Novatnak, Jacob, Nursing Science Program, Queens College of the City of New York, Flushing, N.Y.

Performance of diploma, associate degree, and baccalaureate degree nurse graduates was studied in relation to employers' expectations and educational objectives of nursing schools.

Dates: October 1957—September 1960.

PUBLICATIONS: Brackett, Mary E., and Emma Spaney. What Nurses Like and Dislike About Their Jobs. *Mod. Hosp.*, 89:53, June 1957.

A74. Role Differentials and Nursing Ideology (NU 00050).

INVESTIGATORS: Stern, John A., Ph.D., Head, Department of Medical Psychology; Psathas, George, Ph.D., Research Associate, Department of Sociology-Anthropology; Wessen, Albert F., Ph.D., Assistant Professor of Sociology and Psychiatry; and Barber, William H., Ph.D., Research Instructor in Medical Psychology, Washington University, St. Louis, Mo.

This study of educational and social influences that affect nursing practice entailed construction of instruments to assess the effects of varying training programs and nursing ideologies on student and graduate nurse performance.

Dates: April 1962–July 1967.

PUBLICATIONS: Plapp, Jon M., George Psathas, and Daniel Caputo. Intellective Predictions of Success in Nursing School. *Educ. and Psychol. Measurement*, 25:2:565–577, Summer 1965.

Plapp, Jon M., George Psathas, and Daniel V. Caputo. Effects of Nurse Training on Personality. *Proceedings of the Amer. Psychol. Assn.*, 287–288, Sept. 1966.

Caputo, Daniel, George Psathas, and Jon M. Plapp. Test-Retest Reliability of the EPPS. *Educ. Psychol. Measurement*, 26:4:883–886, Winter 1966.

Caputo, Daniel, George Psathas, and Jon M. Plapp. Sociometric Factors Related to Subsequent Success in a Nursing Program. *Educ. Psychol. Measurement*, 27:2:463–477, Summer 1967.

Psathas, George. The Fate of Idealism in Nursing School. *J Health Soc. Behav.*, 9:1:52–64, Mar. 1968.

Psathas, George, and Jon Plapp. Assessing the Effects of a Nursing Program: A Problem in Design. *Nurs. Res.*, 17:4:336–342, July—Aug. 1968.

Psathas, George. *The Student Nurse in the Diploma School of Nursing.* Springer Publishing Co., Inc., New York, 1968, 207 pp.

A75. An Experimental Study of the Function of the General-Duty Nurse in the Area of Record Keeping (GN 4783).

INVESTIGATORS: Stewart, Donald D., Ph.D., Associate Professor of Sociology; and Moriarty, Honora D., R.N., Ed.D., Research Collaborator in Sociology, University of Arkansas, Fayetteville.

Record keeping responsibilities of general-duty nurses in a general hospital were analyzed to develop information with regard to which items of record keeping may be delegated to other nursing personnel.

Dates: January 1956—August 1958.

PUBLICATION: Moriarty, Honora. *Record Keeping Activities of Nurses. A Time Study and Observations on Quality of Nurses' Notes.* Final Report. The University of Arkansas, Fayetteville. Aug. 1958, processed, 146 pp.

A76. Home Care in Comparison with Continued Hospitalization (NU 00077).

INVESTIGATORS: Stone, Joseph R., M.D., Principal Investigator; Patterson, Elizabeth, R.N., Director-Out-Patient Department, Coordinator-Home; Godin, Fred, M.S.W., Social Worker; Haskins, Robert C., R.N., M.S., Coordinator; Felson, Leon, M.S., Coordinator; and Pechtel, Curtis, Ph.D., Research Psychologist, Mount Sinai Hospital, Inc., Milwaukee.

Two groups of patients were subjected to comparative analysis respecting their needs, the course of illness, the amount of professional care required, costs of care, and reactions to care. The two groups of patients studied were those who remained as inpatients and those discharged to home care, providing medical, nursing, and laboratory services.

Dates: May 1964–April 1967.

PUBLICATION: Stone, Joseph R., Elizabeth Patterson, and Leon Felson. The Effectiveness of Home Care for General Hospital Patients. *JAMA*, 205:3:95–98, July 15, 1968.

A77. Nutrition as an Aspect of Nursing Care (NU 00002).

INVESTIGATORS: Strauss, Anselm W., Ph.D., Associate Professor of Sociology; and Newton, Marjorie E., M.S., Assistant Professor of Nutrition, School of Nursing, University of California Medical Center, San Francisco.

This was an exploratory study focused on the actual roles of nursing staff in meeting the nutritional needs of patients in various hospital settings.

Dates: October 1963—June 1967.

PUBLICATIONS: Beal, Mary Ellen, and Marjorie E. Newton. The Dietetic Intern. *J. Home Econ.*, 58:2:87–93, Feb. 1966.

Newton, Marjorie E., Mary Ellen Beal, and Anselm L. Strauss. Nutritional Aspects of Nursing Care. *Nurs. Res.*, 16:1:46–49, Winter 1967.

A78. Hospital Personnel, Nursing Care, and Dying Patients (NU 00047).

INVESTIGATORS: Strauss, Anselm, Associate Professor of Sociology; Glaser,

Barney G., Ph.D., Assistant Research Sociologist, and Quint, Jeanne C., R.N., M.S., Assistant Research Sociologist, School of Nursing, San Francisco Medical Center, University of California, San Francisco.

Purpose of the study was to improve the nursing care of dying patients and assistance to their families by observing the social relationships of attending medical and nursing personnel, as well as the interactions of personnel with patients, members of patients' families, and each other.

Dates: September 1961—September 1968.

PUBLICATIONS: Folck, Marilyn M., and Phyllis J. Nie. Nursing Students Learn to Face Death. *Nurs. Outlook*, 7:510–513, Sept. 1959.

Strauss, Anselm L., Barney G. Glaser, and Jeanne C. Quint. The Non-Accountability of Terminal Care—An Aspect of Hospital Organization. *Hosp.*, 38:73–81; 84–87, Jan. 1964.

Quint, Jeanne, and Anselm Strauss. Nursing Students, Assignments and Dying Patients. *Nurs. Outlook*, 12:24–27. Jan. 1964.

Glaser, Barney, and Anselm Strauss. The Social Loss of Dying Patients. *Amer. J. Nurs.*, 64:119–121, June 1964.

Glaser, Barney, and Anselm Strauss. Awareness Contexts and Social Interaction. *Amer. Sociol. Rev.*, 29:669–679, Oct. 1964.

Quint, Jeanne C. Nursing Services and the Care of Dying Patients: Some Speculations. *Nurs. Sci.*, 2:432–443, Dec. 1964.

Strauss, Anselm, and Barney Glaser. Discovery of Substantive Theory: A Basic Strategy Underlying Qualitative Research. *Amer. Behav. Scientist*, 8:5–12, Feb. 1965.

Glaser, Barney, and Anselm Strauss. *Awareness of Dying*. Aldine Publishing Co., Chicago, 1965, 305 pp.

Quint, Jeanne C., *The Nurse and the Dying Patient*. The Macmillan Co., New York, 1967, 307 pp.

Glaser, Barney G., and Anselm L. Strauss. *The Discovery of Grounded Theory. Strategies for Qualitative Research*, Aldine Publishing Co., Chicago, 1967, 271 pp.

Quint, Jeanne C. Awareness of Death and the Nurse's Composure. *Nurs. Res.*, 15:1:49–55, Winter 1966.

Glaser, Barney G., and Anselm L. Strauss. The Purpose and Credibility of Qualitative Research. *Nurs. Res.*, 15:1:56–61, Winter 1966.

Glaser, Barney G., and Anselm L. Strauss. *Time for Dying*. Aldine Publishing Co., Chicago, 1968, 270 pp.

A79. Interpersonal Influence and the Nursing Function (GN 4552).

INVESTIGATORS: Tannenbaum, Robert, Ph.D., Associate Professor of Personal Management and Industrial Relations; Meyer, Genevieve R., Ph.D., Assistant Research Psychologist; Weschler, Irving R., Ph.D., Associate Professor of Psychology; MacAndrew, Craig, Ph.D., Assistant Research Psychologist; and Elliott, Jo Eleanor, M.A., Junior Research Nurse, University of California, Los Angeles.

Examination of the effects of interpersonal factors on quality of nursing care was focused on exploration of tensions arising between various members of the nursing team.

Dates: November 1955—June 1959.

PUBLICATIONS: Meyer, Genevieve Rogge. The Attitude of Student Nurses Toward Patient Contact and Their Images of and Preferences for Four Nursing Specialties. *Nurs. Res.*, 7:126–130, Oct. 1958.

Meyer, Genevieve Rogge. Conflict and Harmony in Nursing Values. *Nurs. Outlook*, 7:398–399, July 1959.

McAndrew, Craig, and Jo Eleanor Elliott. Varying Images of the Professional Nurse: A Case Study. *Nurs. Res.*, 8:33–35, Winter 1959.

McAndrew, Craig. The Nurses' Image of Just and Equitable Wages. *Nurs. Res.*, 9:156–157, Summer 1960.

Meyer, Genevieve Rogge. *Tenderness and Technique: Nursing Values in Transition*, Los Angeles, Institute of Industrial Relations, University of California, 1960, 160 pp.

A80. Role Conception in Nursing (NU00007).

INVESTIGATORS: Taves, Marvin J., Ph.D., Associate Professor of Sociology; Corwin, Ronald G., Ph.D., Assistant Professor of Sociology; and Fritz, Edna L., R. N., Ed.D., Dean, School of Nursing, University of Minnesota, Minneapolis.

How role conception affects vocational choice and eventual satisfaction with nursing as a profession was the subject of the study. Minnesota high school students and some 2,000 hospital personnel in 36 institutions in a nationwide sample were surveyed.

Dates: April 1957—July 1963.

PUBLICATIONS: Corwin, Ronald G., and Marvin J. Taves. Some Concomitants of Bureaucratic and Professional Conceptions of the Nurse Role. *Nurs. Res.*, 11:223–227, Fall 1962.

Corwin, Ronald G., and Marvin J. Taves. Some Factors Which Influence Satisfaction with Nursing. *Minn. Reg. Nurse*, 31:104–107, June 1959.

Corwin, Ronald G., Marvin J. Taves, and Eugene J. Haas. Social Requirements for Occupational Success; Internalized Norms and Friendship. *Social Forces*, 39:134–140, Dec. 1960.

Corwin, Ronald G., and Marvin J. Taves. Professional Disallusionment. *Nurs. Res.*, 10:141–144, Summer 1961.

Taves, Marvin J., Eugene Haas, and Jean Anderson Pool. You and the Nurse: A Study in Role Perception. *U. Minn. Med. Bull.*, 29:346–361, Apr. 1958.

Taves, Marvin J., Ronald G. Corwin, and J. Haas. *Role Conception and Vocational Success and Satisfaction.* Bureau of Business Research Monograph No. 112. Ohio State University, Columbus. 1963, 120 pp.

Corwin, Ronald G. The Professional Employee. A Study of Conflict in Nursing Roles. *Social Interaction and Patient Care.* Skipper, James K., and Robert C. Leonard, eds. J. B. Lippincott Co., Philadelphia, 1965, pp. 341–356.

A81. Study in Reorganization of Nursing Unit (GN 4782).

INVESTIGATORS: Throne, Morris N., A.B.A., C.P.A., Associate Director; and Gladstein, Solomon, B.A., Assistant Director, Mount Sinai Hospital of Baltimore, Inc., Baltimore.

An experimental inservice program for training two kinds of hospital nonnursing personnel—floor managers and general aides—to supervise nonprofessional activities resulted in the development of a procedure manual for floor managers and general aides, to guide them in carrying out their responsibilities.

Dates: March 1956—February 1958.

PUBLICATION: Gladstein, S., G. Prasatek, and M. Throne. *A Floor Manager Pattern For the Nursing Unit.* Baltimore, Md. Sinai Hospital of Baltimore, Inc., 1959, 57 pp.

A82. Ritualism in Nursing and Its Effect on Patient Care (NU 00040).

INVESTIGATOR: Walker, Virginia H., R.N., M.A., Director of Nursing Services, Indiana University Medical Center, Indianapolis.

Ritualistic procedure in nursing practice, it is hypothesized, impedes development of professional judgment. This study identified ritualistic procedures and ascertained their relationship to patient well being and recovery.

Dates: May 1961—August 1964.

PUBLICATIONS: Walker, Virginia H., and E. D. Selmanoff. A Study of the Nature and Uses of Nurses' Notes. *Nurs. Res.*, 13:113–121, Spring 1964.

Walker, Virginia H. *Nursing and Ritualistic Practice.* The Macmillan Company, New York, 1967, 196 pp.

A83. Ambiguities in the Nurse-Doctor Relationship (NU 00126).

INVESTIGATORS: Walker, Virginia H., R.N., M.A., Director of Nursing Services, and Selmanoff, Eugene D., M.A., Research Associate, Department of Nursing Services, Indiana University Medical Center, Indianapolis.

Examination of hospital social structure focused on sources of strain between doctors and nurses having relevance to patient welfare. Included were ambiguities in doctors' and nurses' goals, each group's expectation of itself and of the other, and influence processes brought to bear in the work relationship.

Dates: June 1964—August 1968.

PUBLICATIONS: Selmanoff, Eugene D., Strains in the Nurse-Doctor Relationship. *Nurs. Clin. N. Amer.*, Vol. 3, No. 1, Mar. 1968.

A84. Uninterrupted Patient Care and Nursing Requirements (NU 00026).

INVESTIGATORS: Wandelt, Mabel A., R.N., Ph.D., Associate Professor; and Faville, Katherine, R.N., M.S., Dean, Wayne State University College of Nursing, Detroit.

Eighty chronically ill patients who had required more than the average amount of nursing received uninterrupted attention during each of five days. "Experimental" care was assessed in terms of increase or decrease in patient requests, time needed to satisfy requests, and attitudes of personnel toward patients.

Dates: January 1960—September 1963.

PUBLICATIONS: Rich, Rosemary, and James K. Dent. Patient Rating Scale. *Nurs. Res.*, 11:163–171, Summer 1962.

Wandelt, Mabel A. *Uninterrupted Patient Care and Nursing Requirements.* Detroit, Wayne State University, 1963, 184 pp.

A85. Studies of Verbal Interaction Behavior of Nurses (NU 00133).

INVESTIGATORS: Wiens, Arthur N., Ph.D., Assistant Professor of Medical Psychology; and Thompson, Shirley M., R.N., M.A., Associate Professor of Nursing, University of Oregon Medical School, Portland.

Verbal interaction patterns of nurses were examined. Methods used were an experimeter-nurse standardized interview and observation and recording of verbal interaction behavior involving temporal interaction variables, such as speech frequency, duration, initiative and interruptions.

Dates: June 1964—May 1967.

PUBLICATIONS: Wiens, Arthur N., et al. Interview Interaction Behavior of Supervisors, Head Nurses, and Staff Nurses. *Nurs. Res.*, 14:4:322–329, Fall 1965.

Molde, Donald A., and Arthur N. Wiens. Interview Interaction Behavior of Nurses with Task Versus Person Orientation. *Nurs. Res.*, 17:1:45–20, Jan.—Feb. 1968.

A86. Combining Nursing Agencies: A Case Study (NU 00092).

INVESTIGATORS: Wilson, Dorothy, R.N., Ed.D., Executive Director, Community Nursing Services of Philadelphia; Marlowe, Gertrude Woodruff, Ph.D., Social Scientist, Community Health Services, Philadelphia Department of Health; and Hirsch, Leon V., D.B.A., Senior Associate, United Research Incorporated, Community Nursing Services, Philadelphia.

The organization and services provided by the Community Nursing Services of Philadelphia were studied (1) to evaluate its organizational functioning, and (2) to describe the process of merging a voluntary agency (Visiting Nurse Society of Philadelphia) with a public agency (Philadelphia Department of Health) to create a combined public health nursing service.

PUBLICATION: Hirsch, Leon V., Martin S. Klein, and Gertrude W. Marlowe, (Principal Investigator, Dorothy Wilson). *Combining Public Health Nursing Agencies: A Case Study in Philadelphia.* Dept. of Public Health Nursing of the National League for Nursing, 1967, 256 pp.

A87. Hospital Culture, the Nurse, and Patient Care (NU 00035).

INVESTIGATORS: Wooden, Howard E., M.A., Director of Education, St. Mary's Hospital; Ryden, Einar R., Ph.D., Director of Training and Research, Purdue University; and Corcoran, P. J. V., M.D., Cardiologist, St. Mary's Hospital, Evansville, Ind.

An experimental flexible, care-giving environment was provided and evaluated in terms of total patient well being and professional growth of a hospital's medical and nursing personnel.

Dates: January 1961—June 1964.

PUBLICATIONS: Wooden, H. E. Patient-Centered Cardiac Care. *Hosp. Progr.*, 39:80, Dec. 1958.

Wooden, H. E. The Hospital's Purpose is the Patient, But—. *Mod. Hosp.*, 92:90 Jan. 1959.

Wooden, H. E. The System May Come Ahead of the Patient. *Mod. Hosp.*, 91:99–104, Sept. 1959.

Wooden, H. E. Family-Centered Maternity Care: A Summary and Analysis of the Problem. *Hosp. Progr.*, 41:72–73, Aug. 1960.

Wooden, H. E. Patient-Centered Hospital Bends in the Patient's Direction. *Mod. Hosp.*, 95:108, Sept. 1960.

Cole, William. Having a Baby Is a Family Affair. *Family Circle*, 58:90–92, Feb. 1961.

Wooden, Howard E. Hospital Maternity Care: Family Centered. *JAMA*, 177:659-661, Sept. 1961. (Film review.)

Wooden, Howard E. Impact of the Industrial Revolution on Hospital Maternity Care. *Nurs. Forum*, Vol. I:90–104, Winter 1961-62.

Wooden, Howard E. *Hospital Maternity Care: Family Centered.* Essay to Accompany Film of Same Title. Sponsored and Distributed by Mead Johnson Laboratories, 1961, Evansville, Ind. 27 pp.

Wooden, Howard E. Family-Centered Maternity Care. *Hosp. Top.*, 40:69–73, Apr. 1962.

Wooden, Howard E. The Family-Centered Approach. *Nurs. Forum*, 1:60–78, Spring 1962.

Wooden, Howard E., and Edgar Engel. Family-Centered Maternity Care: A Study of Infection Control. *Amer. Obstet. and Gynec.*, 85:260–266, Jan. 1963.

Wooden, Howard E. *Hospital Culture, the Nurse, and Patient Care.* New York. The Macmillan Co. In press.

A88. Care Programming and the Nursing Analysis (NU 00131).

INVESTIGATORS: Wooden, Howard E., M.A., Associate Professor in Research, College of Nursing; Smith, Dorothy M., M.A., Dean, College of Nursing; Cohen, Louis D., Ph.D., Professor and Head, Department of Clinical Psychology; Jourard, Sidney H., Ph.D., Associate Research Professor (Statistics), Department of Psychology; and Anderson, Harry E., Ph.D., Assistant Research Professor (Statistics), Regional Rehabilitation Research Institute, College of Health Related Services. College of Nursing, J. Hillis Miller Health Center, University of Florida, Gainesville, Fla.

Nursing analysis as a systematic informational process of appraising patients' needs for nursing care was used in a controlled study to improve nurse-patient relationships and decrease social dislocation felt by hospitalized patients. The process was expected to help nurses to program care in accordance with each patient's individual degree of need, and to improve patients' preparation for self-care following discharge.

Dates: June 1964—December 1967.

PUBLICATION: Smith, Dorothy M. A. Clinical Nursing Tool. *Amer. J. Nurs.*, 68:11:2385–2388, Nov. 1968.

A89. An Economic Analysis of the Hospital Nursing Shortage (NU 00054).

INVESTIGATOR: Yett, Donald E., Ph.D., Instructor, Department of Economics, Washington University St. Louis, Mo.

A predictive model to describe supply and demand in the hospital labor market was constructed and tested to develop new approaches to problems of nursing shortage.

October 1961—October 1964.

PUBLICATIONS: Yett, Donald E. The Supply of Nurses: An Economist's View. *Hosp. Progr.*, 46:88–103, Feb. 1965.

Yett, Donald. The Nursing Shortage and the Nurse Training Act. *Hosp. Top.*, June 1966.

Yett, Donald, and Judith K. Mann. A Reinterpretation of Hospital Cost Analyses. *Western Econ. J.*, 5:386, Sept. 1967.

Yett, Donald. *An Economic Analysis of the Shortage of Nurses.* Vol. I. Division of Nursing, U.S. Public Health Service, Government Printing Office, Washington, D.C., 1969, in press.

A90. Controlling Experience to Improve Nursing Proficiency (NU 00158).

INVESTIGATORS: Klaus, David J., Ph.D., Director, Training and Education Program, American Institutes for Research; Gosnell, Doris E., R.N., Assistant Director of Nursing for Inservice Education, Presbyterian-University Hospital, Pittsburgh; Marchese, Angeline C., R.N., Research Scientist, American Institutes for Research; Flanagan, John C., Ph.D., President, American Institutes for Research, Pittsburgh.

An investigation of the contribution of clinical experience to nursing proficiency and how it might be accomplished more efficiently, effectively, and economically. The investigators have applied task analysis, performance requirement, and critical incident techniques to the definition of instructional objectives concerned with adequate patient care, the application of proficiency measurement techniques to the assessment of performance and the establishment of instructional standards, and the application of programmed instruction techniques to improve the value of clinical experience as a method of learning to provide effective nursing services.

Dates: June 1965—November 1967.

PUBLICATIONS: Klaus, David J., Doris E. Gosnell, A. Marchese Jacobs, Pamela C. Reilly, and Judith A. Taylor. *Controlling Experience to Improve Nursing Proficiency: Background and Study Plan.* Report No. 1 (Aug. 1966), 49 pp., Report No. 2 (Jan. 1968) 38 pp., Report No. 3 (Feb. 1968) 46 pp., Report No. 4 (Feb. 1968) 56 pp., American Institutes for Research, Pittsburgh, Pa., 1966–68.

A91. Preliminary Inquiry Into Management of Secondary School-Student Health Problems (NU 00168).

INVESTIGATORS: Abrahamsen, Christine E., R.N., M.A.; National League for Nursing; Simon, Helen, R.N., Ph.D., Associate Professor of Nursing, Teachers College, Columbia University. (Research conducted while investigators were with Medical and Health Research Association of New York City.)

This is a "preliminary inquiry" into a program of identification and referral of health problems of junior high school students in New York City with a view to designing a comprehensive study of the effects of nursing service on the outcome of students' health problems.

Dates: May 1965—July 1966.

PUBLICATION: Simon, Helen. *The Management of Health Problems of Secondary School Students.* Teachers College Press, Teachers College, Columbia University, New York, 1968, 132 pp.

A92. Exploratory Study of Nurse-Patient Give and Take (NU 00181).

INVESTIGATOR: Conant, Lucy H., R.N., Ph.D., Dean, School of Nursing, University of North Carolina. (Research conducted while at Yale University.)

An exploratory study of nursing interviews in child health conferences as a basis for the development of a nursing theory of interaction based on the concept of behavior as an exchange of give and take with costs and rewards.
Dates: September 1965—August 1967.
PUBLICATIONS: Conant, Lucy H. Give and Take in Home Visits. *Amer. J. Nurs.*, 65:7, July 1965.

Conant, Lucy H. Use of Bales' Interaction Process Analysis to Study Nurse-Patient Interaction. *Nurs. Res.*, 14:4, Fall 1965.

Conant, Lucy H. What Patients Say About Antepartal Home Visits. *Exploring Progress in Public Health Nursing Practice*, 1965, ANA Regional Clinical Conferences, 1966.

Conant, Lucy H. A Search for Resolution of Existing Problems in Nursing. *Nurs. Res.*, 16:2, Spring 1967.

Conant, Lucy H. Reader Response to: Ethical Inquiry in Nursing Research. *Nurs. Forum*, 6:2, 1967.

Conant, Lucy H. Closing the Practice-Theory Gap. *Nurs. Outlook*, 15:11, Nov. 1967.

Conant, Lucy H. *Exploratory Study of Nurse-Patient Give and Take. Terminal Report.* Yale University, School of Nursing, 1968, 120 pp.

Conant, Lucy H. On Becoming a Nurse Researcher. *Nurs. Res.*, 17:1, Jan-Feb. 1968.

A93. Measurement and Control of Success (NU 00302—formerly NU 00183).
INVESTIGATORS: Leventhal, Howard, Ph.D., Professor of Psychology, University of Wisconsin, Madison; Johnson, Jean, R.N., (Ph.D. candidate) University of Wisconsin.
Extends the research of Leventhal and Sharp initiated at Yale University under GN 8922 (see A64). The investigators hope to describe emotional distress "reactions" at several levels of responding. They are concerned with the thoughts, expressive and motor reactions, and autonomic responses comprising the emotional response pattern. The second objective is to identify the variables that control or influence these responses. The problems will be investigated in both laboratory and field settings. The investigators' ultimate goal is to demonstrate the utility of their findings for the preparation and assistance of patients.
Dates: September 1965—.
PUBLICATIONS: Leventhal, H. Fear Communications in the Acceptance of Preventive Health Practices. *Bull. New York Acad. Med.*, 41:1144–1168. 1965.

Leventhal, H., and Elizabeth Sharp. Facial Expressions as Indicators of Distress. *Affect, Cognition and Personality*, Springer Publishing Co. New York, 1965, pp. 296–318.

Leventhal, H., and R. P. Singer. Affect Arousal and Positioning of Recommendations in Persuasive Communications. *J. Personality Soc. Psychol.*, 4:137–146, 1966.

Leventhal, H., and Jean C. Watts. Sources of Resistance to Fear-Arousing Communications on Smoking and Lung Cancer. *J. Personality Soc. Psychol.*, 34:155–175, 1966.

Leventhal, H., Jean C. Watts, and Francia Pagano. Effects of Fear and Instructions on How to Cope with Danger. *J. Personality Soc. Psychol.*, 6:313–321, 1967.

Leventhal, H. Fear—for Your Health. *Psychol. Today*, 1:54–58, 1967.

A94. Prediction of Need for Nursing Intervention After Surgery (NU 00199).

INVESTIGATORS: Elms, Roslyn R., R.N., M.S.N., Assistant Professor, Director of Research, Harris College of Nursing, Texas Christian University; Elms, Alan C., Ph.D., Assistant Professor, Department of Psychology, Southern Methodist University.

The investigators sought to develop a measurement index for predicting patient responses to surgical recovery that can be used to assess the need for specified nursing intervention.

Dates: June 1966—August 1967.

PUBLICATION: Elms, Roslyn R. *Prediction of Post-Survival Nursing Needs.* Harris College of Nursing, Texas Christian University, Fort Worth, Tex., Aug. 31, 1967, 61 pp.

A95. Measurement of the Surgical Patient's Welfare (NU 00301—formerly NU 00228).

INVESTIGATOR: Johnson, Jean, R.N., (Ph.D candidate) University of Wisconsin, School of Nursing, Madison.

This exploratory study was designed to investigate measurement of variables pertinent for clinical nursing research involving surgical patients. Extensive study of the Palmar Sweat Index (PSI) was undertaken resulting in the identification of psychological and behavioral factors associated with PSI. The PSI and numerous other indicators of patient welfare were studied in surgical patients. The findings provide evidence for the reliability and validity of several indicators of patient welfare and psycho-social variables.

Dates: September 1966—August 1968.

PUBLICATIONS: Johnson, Jean E. The Influence of Purposeful Nurse-Patient Interaction on the Patient's Postoperative Course. *ANA Monograph Series, No. 2, Exploring Medical-Surgical Nursing Practice.* New York, ANA, 1966, pp. 16–22.

Johnson, Jean E., and James M. Dabbs, Jr. Enumeration of Active Sweat Glands: A Simple Physiological Indicator of Psychological Changes. *Nurs. Res.*, 16:3:273–276, Summer 1967.

Dabbs, James M., Jr., Jean E. Johnson, and Howard Leventhal. Palmar Sweating: A Quick and Simple Measure. *J. Exptl. Psychol.*, 1968, processed.

Johnson, Jean E., Donna Diers, and Ann T. Slavinsky. Research Projects for Teaching Methodology. *Nurs. Outlook*, 16:11:27–29, Nov. 1968.

Pranulis, Maryann, James M. Dabbs Jr., and Jean E. Johnson. General Anesthesia and the Patient's Attempts at Control. *J. Personality Soc. Psychol.*, processed.

Johnson, Jean E., James M. Dabbs, Jr., and Howard Leventhal. Psychosocial Factors Associated with Surgical Patients' Welfare. *Nurs. Res.*, processed.

Johnson, Jean E., Howard Leventhal, and James M. Dabbs, Jr. Behavior of Surgical Patients in Relation to Internal-external Control and Birth Order. To be submitted to one of the psychology journals.

Johnson, Jean E., and James M. Dabbs, Jr. Palmar Sweating. To be submitted to a journal in the area of psychophysiology.

Johnson, Jean E. Nursing the Surgical Patient: A Review of Studies of Psycho-social Aspects and Their Application to Nursing. *Amer. J. Nurs.*, processed.

A96. Tracheostomy Suctioning—An Experimental Study (NU 00236).

INVESTIGATORS: Stevenson, Joanne C., R.N. (Ph.D candidate); Shirk, Frieda, R.N., Ed.D., Professor, Assistant Director, School of Nursing, The Ohio State University; Paparella, Michael M., M.D., Assistant Professor, Otolaryngology Department, Director, Otological Research Laboratory; Scarpelli, Dante G., M.D., Professor, Pathology Department, Pathologist, The Ohio State University Hospital.

An exploratory study using dogs as experimental subjects to determine what effect physical maneuvers and different types of apparatus used during the tracheostomy suctioning procedure have on clearing the tracheobronchial tree of mucus. The investigators sought to determine which of these physical maneuvers or types of apparatus causes the least trauma to the tracheobronchial epithelium; and what effect asceptic versus clean suctioning technique has on the incidence of post-operative infections of the lower respiratory tract and lung tissue.

Dates: June 1966—October 1967.

PUBLICATIONS: Stevenson, Joanne C. *Tracheostomy Suctioning—An Experimental Study.* The Ohio State University School of Nursing, Columbus, 1967, 71 pp.

Stevenson, Joanne C. Keys from the Animal Kingdom. *Nurs. Res.*, 17:1:56–58, Jan.—Feb. 1968.

A97. Effects of Nursing Intervention on Illness Careers (NU 00286).

INVESTIGATORS: Murphy, Juanita F., R.N., Ph.D., Assistant Professor, Sociology; Yokes, Jean, R.N., M.S.N., Cardiovascular Clinical Nurse Specialist; Pitel, Martha, R.N., Professor and Chairman, Department of Nursing Education; and Duffey, Margery, R.N., Ph.D., Assistant Professor, Department of Nursing Education, Kansas University Medical Center, Kansas City, Kan.

An exploratory study of the effects of nursing intervention by a clinical nurse specialist upon the illness career of patients undergoing cardiac surgery and to evaluate some proposed instruments as reliable and valid measures of quality of nursing care.

Dates: September 1967—December 1968.

PUBLICATIONS: None.

A98. The Service Manager System: Nurse Efficiency and Cost (NU 00170).

INVESTIGATORS: McKenna, J. V., M.M.E., Professor of Engineering Institute of Technology, St. Louis University; Brodt, Dagmar E., R.N., Ph.D., U.S. Naval Medical Center, Bethesda (formerly Research Coordinator, Barnes Hospital Medical Center); Fogarty, Donald W., M.B.A., Industrial Engineer, Institute of Technology, St. Louis University.

An investigation of the mechanics of the Service Manager System by means of activity analyses. What do head nurses, staff nurses, and practical nurses do under the new system? The intent of the research is to provide answers to these questions and enable the comparison of activities under the Service Manager System with those under the traditional form of organization.

Dates: June 1965—October 1968.

PUBLICATIONS: Brodt, Dagmar E. The Service Manager. Innovation for Nursing and Health Organizations. *Hosp. Progr.*, Sept. 1966, pp. 69–70.

Brodt, Dagmar E., and Ellen H. Anderson. Validation of Patient Welfare Evaluation Instrument. *Nurs. Res.*, 16:2:167–169, Spring 1967.

Fogarty, Donald W., and Joseph V. McKenna. Work Sampling in a Nursing Unit: Observations at Equal-time Intervals Versus Random Observations. *Nurs. Res.*, 16:4:371–376, Fall 1967.

A99. Methods Exploration—Effects of Nursing Practice (NU 00176).

INVESTIGATORS: Hall, Lydia E., R.N., M.A., Administrative Director, Loeb Center for Nursing and Rehabilitation at Montefiore Hospital and Medical Center, New York; Rifkin, Harold, M.D., Medical Consultant; Blumenthal, Sol, M.B.A., Senior Statistician, New York City Department of Health.

An exploratory study designed to select and devise methodology that would be effective in identifying and measuring the therapeutic effects on patients of an experimental nursing process carried on in a new kind of health facility associated with a large urban medical center. (A larger study proposal submitted under NU 00308.)

Dates: June 1966—May 1968.

PUBLICATIONS: None.

A100. Self Attitudes of Hospitalized Adolescents (NU 00217).

INVESTIGATOR: Jones, Lois A., R.N., M.S.N.Ed., Assistant Professor of Nursing, Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland.

An exploratory study of the self attitudes of hospitalized boys and girls, ages 10–11, 14–15, 18–19, and 21–22, and the identification of their attitudes toward the hospitalized experience.

Dates: September 1966—December 1968.

PUBLICATIONS: Jones, Lois A. Nursing Care of Adolescents in a General Hospital. Publication of Department of Pediatric and Obstetric Nursing of the University of Pittsburgh, Feb. 1967.

Jones, Lois A. Adolescents and the Good Patient Concept. *ANA Clin. Sess.*, ANA, New York, 1967.

A101. Children's Reactions to Intramuscular Injections (NU 00241).

INVESTIGATOR: Torrance, Jane T., R.N., M.Ed., Associate Professor of Pediatric Nursing, Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland.

An exploratory investigation of preschool and school aged children's fears of intramuscular injections conducted on pediatric medical wards, and a pediatric clinic. The needle and syringe method of injection was studied in comparison to the jet spray technique.

Dates: September 1967—August 1968.

PUBLICATION: Torrance, Jane Taylor. *Children's Reaction to Intramuscular Injections. A Comparative Study of Needle and Jet Injections.* Frances Payne Bolton School of Nursing. Case Western Reserve University, 1968, 81 pp.

A102.' Appliances for Improving Nursing Care of Quadraplegics (NU 00280).

INVESTIGATORS: Gliscard, J. Brennan, Research Consultant; MacGruder, Donna, R.N., Ehler, Barbara, P.T.; Kush, Susan, O.T.R.; Oberlies, Betty, R.N.; Visiting Nurses Association, Dayton, Ohio.

Exploratory study of those patients who can be helped through the aid of devices or appliances that are currently in use but require improvement or the development of new ones. The devices and appliances covered the areas of urinary drainage, bathing, and sanitation.

Dates: September 1967—August 1968.

PUBLICATIONS: None.

A103. Factors Affecting Quality of Nursing Care (NU 00192).

INVESTIGATORS: Wolfe, Harvey, Ph.D., Assistant Professor of Industrial Engineering, Systems Management Engineering and Operations Research, School of Engineering, University of Pittsburgh; Breslin, Patricia P., R.N., Sc.D., Assistant Professor, Department of Continuing Education, School of Nursing, University of Pittsburgh.

The research is designed to explore a multifactor approach toward quality of nursing care. The investigators sought to identify the factors contributing to quality of nursing care and to determine the feasibility of measuring these factors.

Dates: January 1967—December 1968.

PUBLICATIONS: Wolfe, Harvey, and Patricia Breslin. *Factors Affecting Quality of Nursing Care.* University of Pittsburgh, July 1968, 74 pp.

A104. Nursing Preparation of Patients for Colonic Radiology (NU 00303).

INVESTIGATOR: Hempy, Ann P., R.N., MSN, Instructor in Nursing, School of Nursing, University of South Carolina.

An exploratory study designed to identify factors that are related to the adequacy of patients' preparation for radiologic examination of the colon by barium enema. The investigator views this as a first step to formulating and experimentally testing nursing action that can contribute to a resolution of the problem of inadequate preparation of patients for barium enema examination.

Dates: October 1967—May 1968.

PUBLICATIONS: None.

SECTION B

RECRUITMENT, SELECTION, EDUCATION, AND CHARACTERISTICS OF THE NURSE SUPPLY

B1. Investigation of a Teaching Process in Maternal and Infant Care (GN 4909).

INVESTIGATORS: Bartholf, Marjorie, R.N., M.S., Dean; and Lane, Virginia, R.N., M.A., Associate Professor of Maternity Nursing University of Texas School of Nursing, Galveston.

Preliminary steps were taken to devise a method for comparing two different processes in nursing instruction: (1) the continous student-patient relationship from late pregnancy throughout the maternity cycle, and (2) the traditional block experience plan.

Dates: June 1956—April 1957.

PUBLICATIONS: None.

B2. Teaching Processes in Maternal and Infant Care (GN 5484).

INVESTIGATORS: Bartholf, Marjorie, R.N., M.S., Dean; and Lane, Virginia, R.N., M.A., Associate Professor, University of Texas School of Nursing, Galveston.

Following a pilot study (GN 4909), comparative assessment was made of two different learning experiences for nursing students: (1) continuous care of selected patients throughout the maternity cycle, and (2) traditional block rotation from prenatal clinic to postpartum ward and nursery.

Dates: December 1957—August 1961.

PUBLICATION: Moore, Lucille, and George D. White. Comparison of Teaching Methods in Maternal and Infant Care. *Nurs. Outlook*, 13:74–76, May 1965.

B3. Performance Variables in Collegiate Nursing Education (NU 00042).

INVESTIGATORS: Bartholf, Marjorie, R.N., M.S., Dean; Moore, Lucille Richards, M.S., Assistant Professor; and Rudnick, Betty, Ed.D, Dean, University of Texas School of Nursing, Galveston.

To help schools of nursing improve selection techniques and reduce student dropout, investigators are exploring personal characteristics of nursing students and differences between their self-concepts and instructors' expectations.

Dates: August 1961—January 1968.

PUBLICATIONS: Moore, Lucille, Mari'yn Willman, and George D. White. Factors Influencing the Behaviors of Students in Nursing. *Nurs. Res.*, 11:97–99, Spring 1962.

White, George D., Lucille R. Moore, and Marilyn D. Willman. **A Format** for Presenting Enrollment and Persistence Figures. *Nurs. Res.*, 17:3:264–265, May—June 1968.

B4. Process of Concept Attainment and Nurses' Preferences (NU 00130).
INVESTIGATOR: Berthold, Jeanne S., R.N., Ph.D., Associate Professor of Nursing, Case Western Reserve University, Cleveland, Ohio.

Students at Frances Payne Bolton School of Nursing, Case Western Reserve University participated in a cross-sectional and longitudinal study which proposes to analyze the process and end product of concept attainment behavior and its relationship to nurses' reported orientation to and preferences for selected cognitive areas.

Dates: June 1964—.

PUBLICATION: Berthold, Jeanne S, R.N., Ph.D., Theoretical and Empirical Clarification of Concepts. *N. Sci.*, 2:5:406–422, 1964.

B5. Curriculum Study of Hospital Schools of Nursing (GN 4645).
INVESTIGATOR: Couey, Fred, Ph.D., Couey and Couey, Educational Consultants, Atlanta, Ga.

To provide a basis for an experimental nursing curriculm, the programs, objectives, and learning outcomes of five hospital schools of nursing in Atlanta, Ga., were reviewed.

Dates: April 1956—September 1957.

PUBLICATION: Couey, Fred, and Elizabeth D. Couey. *Improving the Hospital School of Nursing.* Georgia State College of Administration, Atlanta, 1957, processed, 265 pp.

B6. Development of Programmed Units in Nursing (NU 00120).
INVESTIGATOR: Craytor, Josephine K., M.S., Assistant Professor of Nursing, Department of Nursing, University of Rochester, Rochester, N.Y.

Programmed units for teaching cancer nursing were developed and tested with nursing students. Different uses of the materials were compared to ascertain their relative merits in the enhancement of student learning and the conservation of faculty time.

Dates: June 1964—August 1967.

PUBLICATIONS: Craytor, Josephine K. *An Introduction to Radiation Therapy in the Treatment of Cancer, Part I.* Department of Nursing, School of Medicine and Dentistry, University of Rochester, 1966, 70 pp.

Craytor, Josephine K., and Margot L. Fass. *An Introduction to Cancer Nursing A Self-Instructional Unit,* Edition One, revised. University of Rochester School of Medicine and Dentistry, Apr. 1967, 189 pp.

Craytor, Josephine K. *The Development of Programmed Units in Nursing.* Department of Nursing, School of Medicine and Dentistry, University of Rochester, June 1967, 77 pp.

B7. The Acquisition of Interpersonal Sensitivity by Nurses (NU 00085).
INVESTIGATORS: Culver, Charles M., Ph.D., Instructor; Johnson, Betty Sue, R.N., M.S., Assistant Professor, School of Nursing; Bryson, Marion, Ph.D., Assistant Professor, Department of Mathematics; Jones, Edward

E., Ph.D., Professor, Department of Psychology, Duke University, Durham, N.C.; and Dunham, Frances, Ph.D., Lecturer, Department of Psychology, Women's College, Greensboro, N.C.

The study is concerned with the process of the acquisition of interpersonal sensitivity by nurses. Freshman students at Duke University participated, and an effort was made to isolate and measure various dimensions of interpersonal sensitivity, interpersonal accuracy, degree of differentiation and organization of personality traits of individuals, and type and depth of motivational constructs used in explaining the behavior of others.

Dates: September 1963—August 1967.

PUBLICATION: Culver, Charles M., Frances Dunham, and Bety Sue Johnson. A First Course in Interpersonal Relations. *Nurs. Forum*, II(1):79–85, 1963.

B8. Defining Clinical Content of Graduate Nursing Programs (NU 00019).

INVESTIGATOR: Elliott, Jo Eleanor, R.N., M.A., Nurse Consultant, Western Interstate Commission for Higher Education, Boulder, Colo.

Clinical nursing specialists and faculty from Western States, attending work sessions in their respective fields—medical-surgical, maternal and child health, public health, and psychiatric nursing—have examined the nature and importance of foundation in the sciences for leadership, teaching, and research, and are seeking criteria for post-baccalaureate curricula, and complimentary specialization.

Dates: May 1959—August 1967.

PUBLICATIONS: Lewis, Lucile, Virginia Carozza, Maura Carroll, Rita Darragh Maxine Patrick, and Eva Schadt. *Defining Clinical Content—Graduate Nursing Programs: Medical-Surgical Nursing.* Western Interstate Commission for Higher Education, Boulder, Feb. 1967, 44 pp.

Fujiki, Sumika, Bonnie C. Clayton, Nada J. Estes, Maxine Kalkman, and Opal H. White. *Defining Clinical Content—Graduate Nursing Programs: Psychiatric Nursing.* Western Interstate Commission for Higher Education, Boulder, Feb. 1967, 55 pp.

Ford, Loretta C., Marquerite Cobb, and Margaret Taylor. *Defining Clinical Content—Graduate Nursing Programs: Community Health Nursing.* Western Interstate Commission for Higher Education, Boulder, Feb. 1967, 68 pp.

Highley, Betty L., Maxine Berlinger, Phyllis Hillard, Betty Trubey Lounstrom, and B. Louise Murray. *Defining Clinical Content—Graduate Nursing Programs: Maternal Child Health Nursing.* Western Interstate Commission for Higher Education, Boulder, Feb. 1967, 114 pp.

B9. Investigation of Nursing Content—Baccalaureate Nursing Programs (NU 00097).

INVESTIGATOR: Elliott, Jo Eleanor, R.N., M.A., Nurse Consultant, Western Interstate Commission for Higher Education, Boulder, Colo.

Faculty from 37 nursing schools active in the Western Council on Higher Education for Nursing examined their baccalaureate curriculum content to determine whether identification of a "core" of nursing knowledge would yield a new approach to nursing education. The study sought to identify curriculum research needed to improve preparation for patient care and to clarify the contribution of college-educated nurses.

Dates: September 1963—March 1967.

PUBLICATION: Coe, Charlotte, E., Jane Furnas, Joan L. Green, Rosemary Johnson, Julia Ory, Christine S. Smith, and Nona T. Pair. *The Report of One Approach to the Identification of Essential Content in Baccalaureate Programs in Nursing.* Western Interstate Commission for Higher Education, Boulder, Feb. 1967, 66 pp.

B10. Improvement of Education of International Nursing Students (GN 5047).

INVESTIGATORS: Farrell, Marie, R.N., Ed.D., Dean, Boston University School of Nursing, Boston, and Brown, Esther Lucile, Ph.D., Director of University and Community Relations, Boston University School of Nursing.

A pilot study plan was developed for assessing needs of nursing students from technically underdeveloped areas, and if standards of practice and social concepts of the United States may be applied to nursing in the home countries.

Dates: December 1956—May 1958.

PUBLICATIONS: None.

B11. Utilization of Medical Services by Student Nurses (GN 5449).

INVESTIGATORS: Feeney, James J., M.D., Director, Health Service; and Solon, Jerry A., Ph.D., Director, Medical Care Studies Unit, Beth Israel Hospital, Boston, Mass.

Using medical records, a method was developed for (1) describing and measuring the medical services received by selected nursing students, and (2) ascertaining the relationship between use of these services and various student characteristics, such as academic performance and socioeconomic status.

Dates: September 1957—September 1958.

PUBLICATIONS: Feeney, James J., and Jerry Alan Solon. *Utilization of Medical Services by Student Nurses.* Final Report. Beth Israel Hospital, Boston, 1959, processed, 3 pp.

Solon, Jerry A. Delineating Episode of Medical Care. *Amer. J. Public Health,* 57:3: 401–408, Mar. 1967.

B12. Evaluation of Group Counseling for Nursing Students (GN 6246).

INVESTIGATORS: Fitts, William H., Ph.D., Consulting Psychologist; Bell, Gus K., Consulting Psychologist; Butler, Jessie H., R.N., and Cox, Emma L., R.N., Instructors, Meharry College School of Nursing, Nashville, Tenn.

In this 2-year study the effect of a group counseling program for nursing students was evaluated. The program was measured by various behavioral data, including the results of four psychological tests.

Dates: September 1959—August 1961.

PUBLICATIONS: None.

B13. Satisfying and Stressful Situations in Nursing Education (GN 4485).

INVESTIGATORS: Fox, David J., Ph.D., Research Associate; Diamond, Lorraine K., Ph.D., Research Associate; and Argiry, Linda, R.N., Research Assistant, Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York.

The study identified situations and conditions commonly satisfying and those commonly stressful to nursing students. By comparing data with those

found in other educational settings for women it was ascertained whether satisfying or stressful situations are unique to nursing education.
Dates: September 1956—December 1960.
PUBLICATIONS: Diamond, Lorraine K., and David J. Fox. Turnover Among Hospital Staff Nurses. *Nurs. Outlook*, 7:388–391, July 1958.

Fox, David J, and Lorraine K. Diamond. The Identification of Satisfying and Stressing Situations in Basic Programs in Nursing Education: A Progress Report. *Nurs. Res.*, 8:4–12, Winter 1959.

B14. Factors and Practices Related to Increased Satisfaction and Decreased Stress in Basic Nursing Programs (NU 00029).

INVESTIGATORS: Fox, David J., Ph.D., Research Associate; and Walsh, Ruth C., M.S., Research Assistant, Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York.

Study of student reaction to specific nursing school situations served to identify factors in school, faculty, and student which are related to student perception of satisfaction and stress.
Dates: September 1960—January 1964.
PUBLICATIONS: Fox, David J., Lorraine K. Diamond, and Ruth C. Walsh. *The Potential for Satisfaction and Stress of Selected Aspects of Nursing School Experience.* Rexographed Report. Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York, June 1962.

Fox, David J., Lorraine K. Diamond, and Ruth C. Walsh. *Correlates of Stress and Satisfaction in Nursing School Experience.* Rexographed Report. Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York, July 1962.

Fox, David J., Lorraine K. Diamond, Ruth C. Walsh, Lucille Knopf, and Jean Hodgin. Correlates of Satisfaction and Stress with Nursing School Experience. *Nurs. Res.*, 12:83–88, Spring 1963.

Fox, David J., Lorraine K. Diamond, Ruth C. Walsh, Lucille Knopf, and Jean Hodgin. Correlates of Satisfaction and Stress with Selected Aspects of Nursing School Experience. *Nurs. Res.*, 12:157–161, Summer 1963.

Fox, David J., Lorraine K. Diamond, Ruth C. Walsh, Lucille Knopf, and Jean Hodgin. The Stress and Satisfaction Potential of Selected Aspects of Nursing School Experieince. *Nurs. Outlook*, 11:525–529, July 1963.

Fox, David J., Lorraine K. Diaimond, Ruth C. Walsh, Lucille Knopf, and Jean Hodgin. The Nursing Student in the Hospital Setting. *Hosp.*, 37:50, July 1963.

Fox, David J., Lorraine K. Diamond, Ruth C. Walsh, and Jean Hodgin. The Nursing Student Views Patient Care. *Hosp.* 37:135, July 1963.

Fox, David J., Lucille Knopf, Ruth C. Walsh, Lorraine K. Diamond, and Jean Hodgin. Can "Just Talking" Be Planned? *Amer. J. of Nurs.*, 63:107–110, Aug. 1963.

Fox, David J., Lorraine K. Diamond, Ruth C. Walsh, Lucille Knopf, and Jean Hodgin. *Factors Related to Student Reaction to Nursing School Experience.* Rexographed Report. Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York, Sept. 1963.

Fox, David J., et al. Freshman Characteristics and Expectations Related to Anticipated Satisfaction From Attending Nursing School. *Nurs. Forum*, 2:49:59, 1963.

Fox, David J., L. K. Diamond, R. C. Walsh, L. Knopf, and J. Hodgin, Characteristics of Basic Nursing Faculty. *Nurs. Outlook*, 12:40–43, 1964.

Fox, David J., Lorraine K. Diamond and Associates. *Satisfying and Stressful Situations in Basic Programs in Nursing Education.* New York, Bureau of Publications, Teachers College, Columbia University, 1964, 212 pp.

B15. Satisfying and Stressful Situations in Basic Programs in Nursing Education (NU 00057).

INVESTIGATOR: Fox, David J., Ph.D., Research Associate, Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York.

Data on satisfying and stress-inducing experiences in nursing education which were collected in a series of studies (GN 4485 and NU 00029) were processed to provide further information.

Dates: August 1962—July 1963.

PUBLICATION: Fox, David J., Lorraine K. Diamond, and Associates. *Satisfying and Stressful Situations in Basic Programs in Nursing Education.* Bureau of Publications, Teachers College, Columbia University, New York, 1964. 209 pp.

B16. Outcomes of Degree and Diploma Nursing Education (GN6602).

INVESTIGATOR: Gibbard, Eleanor Reid, M.S., West Virginia State Board of Examiners for Registered Nurses, Charleston, W. Va.

Investigation examined the hypothesis that graduates of baccalaureate degree nursing programs contribute more to nursing than diploma graduates; and that, in the long run, married, fully employed degree graduates are more successful than diploma graduates in reconciling conflicting demands of career and marriage.

Dates: June 1959—May 1960.

PUBLICATION: Gibbard, Eleanor Reid. *Some Outcomes of Degree and Diploma Nursing Education in West Virginia.* 1960, processed.

B17. Characteristics of Collegiate Nursing Students (NU 00089).

INVESTIGATORS: Gortner, Susan R., R.N., Ph.D., Lecturer in Nursing; and Gross, Yukie T., R.N., M.S., Assistant Dean, University of Hawaii Department of Nursing, Honolulu, Hawaii.

Measures for determining personal characteristic necessary to success in nursing school were studied. The project examined variables in college environment, faculty characteristics and also variables relating to personality, personal values, and self-images of nursing students.

Dates: January 1964—December 1965.

PUBLICATIONS: None.

B18. Development of Professional Nursing at the Catholic University of America 1932–58—Relationships to the National Scene (NU 00113).

INVESTIGATORS: Gowan, Sister M. Olivia, O.S.B., R.N., M.A., LL.D., Consul-

tant in Nursing, Sisters of St. Benedict, Duluth, Minn.; and Bergeron, Sister Rita Marie, O.S.B., R.N., Ph.D., Chairman, Department of Nursing, College of St. Scholastica, Duluth, Minn.

Development and significance of the first school of nursing to be founded in a Pontifical University of the Roman Catholic Church, now international in its scope and leadership, was viewed against a background of professional, social, and political influences. The archives of the Catholic University of America, related studies of contemporary significance, interviews with nursing faculty, and memoir materials provided primary sources.

Dates: June 1964—March 1967.

PUBLICATIONS: Gowan, Sister M. Olivia. *The Development of Professional Nursing at the Catholic University of America 1932–1958—Relationships to the National Scene.* College of St. Scholastica, Dept. of Nursing, Duluth, Minn., Mar. 1967. 248 pp.

Gowan, Sister M. Olivia. Influence of Graduate Nurses on the Formative Years of a University School of Nursing. *Nurs. Res.*, 16:3:261–266, Summer 1967.

B19. Measure of Nursing Performance—U.C.L.A. Basic Graduates (GN 6383).

INVESTIGATORS: Hassenplug, Lulu W., Dean, School of Nursing; Dunlap, I. Estelle, R.N., Ed.D., Assistant Professor; and Nakagawa, Helen, B.S., Junior Research Nurse, University of California School of Nursing, Los Angeles.

A tool was constructed to ascertain whether graduates of the University of California School of Nursing at Los Angeles adhere in practice to standards they are taught as students.

Dates: April 1957—August 1960.

PUBLICATIONS: None.

B20. Essentials for Public Health Nursing Field Experience (GN 5063).

INVESTIGATORS: Hay, Ruth W., R.N., M.S., Professor; and Hansen, Ann C., R.N., M.P.H., Associate Professor, School of Public Health, University of North Carolina, Chapel Hill, N.C.

Some criteria for selection of public health nursing field centers for graduate nurses were sought in this pilot study. (See also B21).

Dates: December 1956—November 1957.

PUBLICATIONS: (See NU 00011, B21.)

B21. Essentials for Public Health Nursing Field Experience (NU 00011).

INVESTIGATORS: Hay, Ruth W., R.N., M.S., Professor; and Hansen, Ann C., R.N., M.P.H., Associate Professor, University of North Carolina School of Public Health, Chapel Hill, N.C.

Examination of 40 field instruction centers in 16 southern states was undertaken. The twofold purpose of the investigation was (1) to develop and test new criteria for selection of centers for preparing nurses for beginning practice in public health, and (2) to construct an instrument for evaluating the outcomes of field experience.

Dates: January 1958—May 1963.

PUBLICATIONS: *Critical Decision Scales: Scale A—Priority for Home Visits; Scale B—Importance of Advising Medical Care,* University of North Carolina, Chapel Hill, N.C., 1961.

Hansen, Ann C, and Judith M. Levy. What Is a Public Health Nurse? *Nurs. Res.*, 10:100–103, Spring 1961.

Hansen, Ann C., and Judith M. Levy. Families Speak for Themselves, *Nurs. Outlook*, 9:344–349, June 1961.

Hansen, Ann C., Donald B. Thomas, and Harry S. Upshaw. Judgment of Priorities for Home Visits. *Nurs. Outlook*, 10:385–389, June 1962.

Hansen, Ann C., and Harry S. Upshaw. Evaluation Within the Concepts of Role Analysis. *Nurs. Res.*, 11:144–150, Summer 1962.

Upshaw, Harry S. Our Attitudes as an Anchor in Equal-Appearing Intervals. *J. Abn. Soc. Psychol.*, 64:85–96, 1962.

Hansen, Ann C., and Donald B. Thomas. Student Interest in Public Health Nursing. *Nurs. Res.*, 13:233–238, Summer 1964.

B22. Curriculum Research for Graduate Education in Nursing (GN 5645).

INVESTIGATOR: Heidgerken, Loretta, R.N., Ed.D., Professor of Nursing Education, Catholic University of America, Washington, D.C.

This pilot study explored directions for curriculum research necessary to developing and testing a new pattern for graduate education at the master's level.

Dates: February 1958—August 1959.

PUBLICATIONS: None.

B23. Study of Costs of Nursing Education (NU 00009).

INVESTIGATORS: Helm, Eleanor, R.N., M.S., Director, Department of Baccalaureate and Higher Degree Programs; Flitter, Hessel H., R.N., Ed.D., Director, Research and Studies Service; Eliott, Florence E., R.N., M.A., Director, Study on Cost of Nursing Education, National League for Nursing, New York, N.Y.

A comparative study of costs and factors affecting costs of nursing education was a cooperative undertaking of 100 associate degree, diploma, and collegiate schools. Data were furnished by schools that observed a standard method of cost accounting.

Dates: August 1958–February 1965.

PUBLICATIONS: Tate, Barbara. Attrition Rates in Schools of Nursing. *Nurs. Res.*, 10:91–96, Spring 1961.

Rowe, Harold, and Hessel H. Flitter. *A Study on Cost of Nursing Education. Part I. Cost of Basic Diploma Education.* NLN Code #19–1142, 1964, pp. 101. Same authors and title, *Part II. Cost of Basic Baccalaureate and Associate Degree Programs.* NLN Code #19–1174, 1965, pp. 96.

B24. Investigating Effectiveness of a Leadership Program in Nursing (NU 00078).

INVESTIGATORS: Ingmire, Alice E., R.N., Ed.D., Associate Professor, University of California School of Nursing, San Francisco; Taylor, Calvin W., Ph.D., Professor of Psychology, University of Utah, Salt Lake City; Darragh, Rita, Montana State College; Dunlap, Marjorie, University of Calif., Los Angeles; Geitgey, Doris, University of Calif., Los Angeles; Gross, Yukie T., University of Hawaii; Orwig, Bernice, University of Oregon; Popiel, Elda Staver, University of Colorado; Smith, Frieda, University of Arizona; Smith, Harriet, University of Washington; and Van Sant, Genee, University of Utah.

This investigation arose as a result of a proposal by the Western Interstate Commission for Higher Education to evaluate its two-year regional continuation education program. Performance of 400 nurses who had been awarded Public Health Service traineeships for participation was compared with performance of other nurses who occupied matched positions in comparable geographical areas.

Dates: July 1963—April 1967.

PUBLICATIONS: Ingmire, Alice E., et al. *Follow-up Performances of the Experimental Group. The Effectiveness of a Leadership Program in Nursing.* Western Interstate Commission for Higher Education, Boulder, Apr. 1967, 6 pp.

Ingmire, Alice E. *A Report of Pre- and Post-Performance Testing of Nurses in a Leadership Development Program 1964–1966.* The Effectiveness of a Leadership Program in Nursing. Western Interstate Commission for Higher Education, Boulder, Apr. 1967, 14 pp.

B25. Public Health Nursing Field Work in Basic Baccalaureate Programs (GN 5160).

INVESTIGATOR: Lee, Eleanor, R.N., Executive Officer, Department of Nursing, Columbia University, New York.

Major aims of the study were comparison of achievements on public health nursing tests of graduates from accredited public health programs with those from basic degree schools not accredited, and identification of field work assignments which best prepare students of accredited programs for their public health nursing examinations.

Dates: September 1957—August 1959.

PUBLICATION: Columbia University Faculty of Medicine, Department of Nursing. *Report on Public Health Nursing Field Work in Basic Baccalaureate Programs.* Columbia University. 1960, processed, 80 pp.

B26. Relationship of Nursing Education to Performance (NU 00128).

INVESTIGATORS: Levine, Sol, Ph.D., Associate Professor of Social Psychology; and Highriter, Marion, R.N., Research Fellow, Harvard University School of Public Health, Boston.

Public health nurses from diploma schools were compared with those from baccalaureate programs in their ability to recognize and meet patients' needs. Evaluation by supervisors, self-evaluation of nurses, and family satisfaction provided bases for comparison.

Dates: May 1964—April 1966.

PUBLICATIONS: None.

B27. The Professionalization Process in Nursing (NU 00028).

INVESTIGATORS: McKinney, John C., Ph.D., Chairman, Department of Sociology and Anthropology; Jacobansky, Ann M., R.N., M.S., Dean, School of Nursing; Back, Kurt W., Ph.D., Associate Professor of Sociology; Simpson, Ida H., Ph.D., Assistant Professor of Sociology; Kerckhoff, Alan C., Ph.D., Associate Professor of Sociology; and Ingles, Thelma, M.A., Associate Professor, Nursing, Duke University, Durham, N.C.

Two classes have been followed from their entrance into nursing school to the first year of professional practice for the two fold purpose of identifying factors that propel students toward nursing and ascertaining the effects of the educational process on self-image and role behavior of graduate nurses.

Dates: June 1960—May 1967.

PUBLICATIONS: McKinney, John C., and Thelma Ingles. The Professionalization of Nurses. *Nurs. Outlook*, 7:365–366, June 1959.

McKinney, John C., Kurt W. Back, Alfred Dean, Thelma Ingles, Ann M. Jacobansky, Alan C. Kerckhoff, James C. Kimberly, and Ida H. Simpson. *The Professionalization Process in Nursing*. Duke University, Sept. 1962, processed, 120 pp.

B28. Organizational Effects of Nurse Management Workshops (NU 00065).

INVESTIGATORS: McLemore, Samuel Dale, Ph.D., Assistant Professor, Department of Sociology; and Hill, Richard J., Ph.D., Associate Professor and Director Statistical Laboratory, Department of Sociology, University of Texas, Austin.

Verbal changes associated with workshop attendance and reported changes in work behavior were explored in an effort to ascertain if lasting changes in participants' attitudes and behavior require the support of significant other staff members in the work group.

Dates: September 1962—August 1965.

PUBLICATIONS: McLemore, S. Dale, and Richard J. Hill. *Management-Training Effectiveness. A Study of Nurse Managers.* (Studies in Personnel and Management No. 16) Bureau of Business Research, The University of Texas, Austin, 1965, 205 pp.

Enoch, Joe Rex. *On the Meaning of Group Cohesion: A Conceptual and Empirical Study.* (Ph.D. Dissertation.) The University of Texas, Austin, July 1965, 128 pp.

Carter, Lewis Ferrell. *Professional Socialization and Attitude Change.* (M.A. Thesis). The University of Texas, Austin, Jan. 1965, 117 pp.

McLemore, S. Dale, and Richard J. Hill. Role Change and Socialization in Nursing. *Pacific Sociol. Rev.*, 8:1:21–27, Spring 1965.

Carter, Lewis F., Richard J. Hill, and S. Dale McLemore, Social Conformity and Attitude Change Within Nonlaboratory Groups. *Sociometry*, 30:1:1–13, Mar. 1967.

B29. Role Images and Opportunities for Nurses in Turkey (NU 00033).

INVESTIGATORS: McManus, R. Louise, R.N., Ph.D., Professor Emeritus; and Simmons, Leo W., Ph.D., Professor of Education and Executive Officer, Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York.

First in a series of projects on the status of nursing in countries of contrasting socio-cultural conditions, this study had two major aims: (1) to learn how nursing and medical personnel, patients, and civil leaders in Turkey view the role of the professional nurse; and (2) to determine how the nurse's self-image affects her professional development.

Dates: October 1960—June 30, 1964.

PUBLICATIONS: None.

B30. Adelaide Nutting and Rise of Nursing Profession (NU 00107).

INVESTIGATOR: Marshall, Helen E., Ph.D., Professor of American History, Illinois State Normal University Graduate School, Normal, Ill.

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The history of the life and achievements of a pioneer nursing educator, Adelaide Nutting, were based on her personal correspondence; her school files and papers at both Teachers College, Columbia University, and The Johns Hopkins University; her hospital reports; her printed writings and the writings of her contemporaries; and interviews with living relatives, students, and colleagues.

Dates: February 1964—July 1966.

PUBLICATION: Marshall, Helen E., Ph.D. *Mary Adelaide Nutting—Builder of a Profession*, Normal, Ill., Illinois State Normal Graduate School, 1967, processed, 662 pp.

B31. Self and Role Perception Among Nurses: A Pilot Study (GN 5771).

INVESTIGATOR: Mauksch, Hans O., Ph.D., Chairman, Social Science Department, Presbyterian-St. Lukes Hospital, Chicago.

Examination was made of the nurse's concept of her role, the kind of person who chooses to stay with nursing, and the demands imposed on the nurse in an institutional setting.

Dates: June 1958—November 1959.

PUBLICATIONS: None.

B32. Evaluation of an Experimental Nursing Curriculum (GN 7613).

INVESTIGATORS: Mauksch, Hans O., Ph.D., Director, Patient Care Research, Presbyterian-St. Luke's Hospital, Chicago; Van Buskirk, Charles, Ph.D., Assistant Professor of Clinical Psychology, University of Iowa, Iowa City; Payne, Edith D., M.A., Director of Nursing; and Bradley, Doris, Research Associate, Presbyterian-St. Luke's Hospital, Chicago.

Nursing students were exposed to an experimental curriculum that emphasized the humanities and the natural and social sciences as well as the nursing arts. Following 2 years of clinical and academic work, and a 1-year internship, students were evaluated on professional knowledge, performance, and personal growth.

Dates: October 1960—October 1963.

PUBLICATIONS: Smouse, Albert S., Morris Aderman, and Charles Van Buskirk. Three Empathy Measures as Correlates of Test Rating Criteria. *Psychol. Rep.*, 12:803–809, 1963.

Van Buskirk, Charles, Hans O. Mauksch, Edith D. Payne, Morris Aderman, Vera Werner, Albert D. Smouse, and Gail J. Bakken. *Evaluation of an Experimental Nursing Curriculum.* (Final Report), I.I.T. Health Research Center, Illinois Institute of Technology, Chicago, June 1964. (Limited Distribution).

B33. Clinical Nursing Instruction by Closed Circuit Television (NU 00049).

INVESTIGATORS: Matheney, Ruth V., Ed.D., and Griffin, Gerald J., M.A., Directors, Department of Nursing Bronx Community College; and Kinsinger, Robert E., Ed.D., Director, Associate Degree Nursing Project, New York State Department of Education.

Investigators explored the potential of teaching by closed circuit television and two-way communication between nursing instructors and students at the bedsides of various patients for meeting instructional needs of increasing numbers of students.

Dates: January 1962—March 1964.

PUBLICATIONS: Griffin, Gerald J., and Robert E. Kinsinger. *Teaching Clinical Nursing by Closed Circuit TV.* Bronx Community College, 1962.

Study Use of TV in Nurse Training. *Today's Health,* Jan. 1963, p. 87–88.

Kinsinger, Robert E. Technology Plus Imagination Equals Educational Revolution. *Nurs. Outlook,* 11:252–254, Apr. 1963.

Experimenting with TV in Clinical Teaching. *Amer. J. Nurs.,* 63:80–81, Apr. 1963.

Griffin, Gerald J., Robert E. Kinsinger, and Avis J. Pitman, Clinical Nursing Instruction and Closed Circuit TV. *Nurs. Res.,* 13(3);196–204, Summer 1964.

Griffin, Gerald J., Robert E. Kinsinger, and Avis J. Pitman. Clinical Nursing Instruction by Television. *Nurs. Educ. Monogr.* New York. Teachers College, Columbia University, 1965, 79 pp.

Griffin, Gerald J., Robert E. Kinsinger, Avis J. Pitman, and Eunice R. Kepler. New dimensions for the Improvement of Clinical Nursing. *Nurs. Res.,* 15:4:292–302, Fall 1966.

B34. The Development of Identities in Nursing (NU 00024).

INVESTIGATORS: Nahm, Helen, R.N., Ph.D., Dean; Strauss, Anselm, Ph.D., Professor of Sociology; Davis, Fred, Ph.D., Associate Research Sociologist; Olesen, Virginia L., Ph.D., Assistant Research Sociologist; and Whittaker, Elvi Waik, M.A., Senior Research Assistant, School of Nursing, University of California, San Francisco.

The study identified the significant experience in the transformation of lay persons into professional nurses through comprehensive examination of the social structure of the nursing school and the impact of students' reactions on the training institution.

Dates: September 1959—August 1967.

PUBLICATIONS: Davis, Fred, and Virginia L. Olesen. Initiation into a Woman's Profession: Identity Problems in the Status of Transition of the Co-ed to Student Nurse. *Sociometry,* 26:89–101, Mar. 1963.

Whittaker, Elvi, and Virginia Olesen. The Faces of Florence Nightingale: Functions of the Heroine Legend in an Occupational Sub-Culture. *Human Organization,* 23:2:116–130, Summer 1964.

Davis, Fred, and Virginia L. Olesen. Baccalaureate Students' Images of Nursing: Change, Consensus, and Consonance in First Year Baccalaureate Students' Images of Nursing. *Nurs. Res.,* 13:8–15, Winter 1964.

Olesen, Virginia L., and Fred Davis. Baccalaureate Students' Images of Nursing. *Nurs. Res.,* 15:2:151–158, Spring 1966.

Olesen, Virginia L and Elvi W. Whittaker. *The Silent Dialogue.* Jossey-Bass Inc., San Francisco, 1968, 312 pp.

B35. An Experiment in Nursing Curriculums at a University (NU 00072).

INVESTIGATORS: Nahm, Helen, R.N., Ph.D., Dean, and Harms, Mary, Ed.D., Assistant Dean, School of Nursing, University of California, San Francisco; McDonald, Frederick A., Ph.D., Associate Professor, Psychology

and Education, Stanford University; and Bailey, June, Ed.D., Assistant Professor, School of Nursing, University of California, San Francisco.

Performance of students taking the established curriculum at the University of California School of Nursing at San Francisco are being compared with that of students in an experimental program. Each group of entering students will be assigned randomly to one of the two curriculums. Repeated assessment of problem-solving abilities over a 4-year period will be used to test the prediction that the experimental curriculum produces the professional nurse more effectively.

Dates: September 1963—.

PUBLICATIONS: Bailey, June T., Frederick J. McDonald, and Mary T. Harms. A New Approach to Curriculum Development. *Nurs. Outlook*, 14:7:33–35, July 1966.

McDonald, Frederick J., and Mary T. Harms. *Nurs. Outlook*, 14:8:48–51, Aug. 1966.

Harms, Mary T., and Frederick J. McDonald. A New Curriculum Design. *Nurs. Outlook*, 14:9:50–53, Sept. 1966.

Bailey, June T., Frederick J. McDonald, and Mary T. Harms. A New Approach to Curriculum Development in a University School of Nursing. Parts I, II, and III. School of Nursing, University of California—San Francisco, 1966, processed, 30 pp.

B36. Self-Evaluation of Nursing Activities in the Clinical Area (GN 7478).

INVESTIGATOR: Palmer, Mary Ellen, R.N., M.S., Assistant Professor, University of Vermont, College of Education and Nursing, Burlington, Vt.

Self-evaluation by nursing students was explored as a means of solving the instructor's problem of grading students' performance in clinical nursing.

Dates: October 1960—September 1961.

PUBLICATIONS: Palmer, Mary E. A Method of Determining Grades for Clinical Performance. *Nurs. Outlook*, 7(8):468–470, 1959.

Palmer, Mary Ellen. *A Rating Scale To Be Used as A Guide in Grade Determination for Clinical Practice in the Medical and Surgical Course of a Specific Basic Collegiate Program.* Boston University Press, Boston, 1960, 90 pp.

Palmer, Mary Ellen. Patient-Centered Problem Approach to Teaching Medical-Surgical Nursing. *Nurs. Outlook*, 9 (7):411–413, 1961.

Palmer, Mary Ellen. *Self Evaluation of Nursing Performance Based on Clinical Practice Objectives.* Boston University Press, Boston, 1962.

Palmer, Mary Ellen. Our Students Write Their Own Behavioral Anecdotes. *Nurs. Outlook*, 11:185–187, Mar. 1963.

B37. Curriculum Research and Evaluation in Basic Nursing Education (GN 3665).

INVESTIGATORS: Sand, Ole, Ph.D., Professor of Education; Belcher, Helen C., R.N., M.N., Assistant Professor of Nursing; Hill, Richard J., Ph.D., Assistant Professor of Sociology; and Enos, Lucy, M.A., Assistant Professor, School of Nursing, University of Washington, Seattle.

Faculty and students cooperated in experimenting with new curriculum designs to find answers to two major questions:

(1) how may programs in basic nursing education be improved?

(2) can the time required to prepare a professional nurse be shortened?
Dates: September 1952 [1]—November 1957.
PUBLICATIONS: Tschudin, Mary S., and Tirzah M. Morgan. A Faculty Grows Through Curriculm Study. *Nurs. Outlook*, 1:198–201, Apr. 1953.

Patterson, Lillian B. Research in a Basic Nursing Education Curriculm. *Nurs. Outlook*, 1:583–584, Oct. 1953.[1]

Sand, Ole. Recommendations in Nursing Study Carried Out in Research Program. *Wash. J. Nurs.*, 25:8–13, Nov. 1953.

Sand, Ole, and Helen Belcher. Curriculum Research in Education: A Progress Report. *Nurs. Outlook*, 2(2):86–89, Feb. 1954.

Sand, Ole, and Mary Tschudin. Cooperative Curriculum Research in a University Professional School. *Educational Leadership*, pp. 476–482, May 1954.

Mosley, Spencer, and Helen C. Belcher. General Education and the Student Nurse: Art in the Nursing Curriculm. *Nurs. Outlook*, 3(2):86–89, 1955.

Sand, Ole. *Curriculum Study in Basic Education*. Vol. I. G. P. Putnam's Sons, New York, 1955.

Otis, Richard, and Helen Belcher. General Education and the Student Nurse. English in the Nursing Curriculum. *Nurs. Outlook*, 4:399–401, 1956.

Sand, Ole. Nursing Education in Forefront. (Editorial). *Nurs. Outlook*, 5:15, Jan. 1957.

Belcher, Helen, and Marion R. Broer. General Education and the Student Nurse: Physical Education in the Nursing Curriculum. *Nurs. Outlook*, 5:149–151, Mar. 1957.

Tschudin, Mary S., Helen C. Belcher, and Leo Nedelsky. *Evaluation in Basic Nursing Education*,[2] Vol. II. G. P. Putnam's Sons, New York, 1958.

Sand, Ole, and Helen Belcher. *An Experience in Basic Nursing Education*, Vol. III, G. P. Putnam's Sons, New York, 1958.

B38. Counselors' Concepts of Professional Nurses (NU 00061).
INVESTIGATORS: Sherrick, Anna Pearl, R.N., Ed.D., Director; and Suvak, Albert, Assistant Professor of Testing and Counseling, Montana State College School of Nursing, Bozeman, Mont.
To improve the recruitment of able students to collegiate nursing education, the study evaluates the understanding of the State's high school guidance counselors concerning the personal characteristics nursing students need for success in a collegiate nursing program.
Dates: June 1963—March 1964.
PUBLICATIONS: None.

[1] Award made by N.I.H. prior to organization of the Research Grants Branch, Division of Nursing, in 1955.
[2] The authors list 33 graduate studies related to this research on pp. 293–297.

B39. Vocational Images of Public Health Nurses in Jamaica (NU 00037).
INVESTIGATORS: Simmons, Leo, Ph.D., Professor of Education and Executive Officer; and Seivwright, Mary J., Internist, Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York.

Second in a series of projects viewing nursing in intercultural perspective, this study shows: (1) how the self-image of the public health nurse in Jamaica conflicts with the community's expectations of her role; and (2) how the nurse copes with the stresses of conceptual differences.
Dates: January 1961—August 1964.
PUBLICATIONS: None.

B40. Nursing Student Selection and Job Satisfaction (NU 00034).
INVESTIGATORS: Smith, Gene M., Ph.D., Research Psychologist, Massachusetts General Hospital, Boston, Mass.; and Macklin, Theodore O., M.A., Clinical Psychologist and Group Psychologist, Catherine Laboure School of Nursing, Dorchester, Mass.

An instrument was developed to measure job satisfaction among nursing students. Determinations were sought of relationship between extent of job satisfaction and various intellectual and personality factors that predict or indicate success of nursing students.
Dates: October 1960—February 1964.
PUBLICATIONS: None.

B41. Relationship of Personality to Success in Nursing School (NU 00104).
INVESTIGATOR: Smith, Gene M., Ph.D., Research Psychologist, Massachusetts General Hospital, Boston.

A methodology was developed for the purpose of determining comparative importance of various personality traits for succesful nursing.
Dates: January 1964—December 1967.
PUBLICATIONS: Smith, Gene M. The Role of Personality in Nursing Education. *Nurs. Res.*, 14:1:54–58, Winter 1965.

Smith, Gene M. *Usefulness of Peer Ratings of Personality in Educational Research.* Boston University and Harvard Medical School, Boston, 1966, processed, 18 pp.

B42. Nursing Students' Use of Medical Services (NU 00066).
INVESTIGATORS: Solon, Jerry A., Ph.D., (formerly) Director, Medical Care Studies Unit, Beth Israel Hospital, and Associate Research Professor of Medical and Hospital Administration, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pa.; Jones, Sally Hull, R.N., M.S., Research Associate; Feeney, James J., M.D., Director of Ambulatory Services; and Barbano, Joseph P., Statistician, Medical Care Research Unit, Beth Israel Hospital, Boston.

Medical service utilization by nursing students was analyzed in terms of kinds of illness and length of medical care episode; stages and stresses of the educational experience; physical, psychological, scholastic, and solciocultural characteristics; and similarity of students' medical service utilization with that of comparable groups.
Dates: January 1961—December 1965.
PUBLICATIONS: The medical Care "Episode"—A New Concept of Analysis. *JAMA*, Dec. 9, 1968.

Solon, Jerry A., Ruth D. Rigg, Sally Jones, James Feeney, Joan W. Lingner, and Cecil G. Sheps. Episodes of Medical CARE: Nursing Students' Use of Medical Services. *Amer. J. Public Health*, 1969, processed.

B43. Factors Determining Selection or Rejection of Nursing as a Career (GN 4465).

INVESTIGATORS: Suchman, Edward A., Ph.D., Professor of Sociology and Head of Department; Williams, Robin M., Jr., Ph.D., Professor; and Goldsen, Rose K., Ph.D., Associate Professor of Sociology and Anthropology, Cornell University, Ithaca, N.Y.

Six hundred practicing nurses, 400 persons who aspired to be nurses, and 400 who had not been interested in nursing were studied to ascertain the relative weights of factors such as expected gratification, personal characteristics, family composition, and occupational setting in the choice of a career.

Dates: August 1956—July 1962.

PUBLICATION: White, Rodney F., and Rose K. Goldsen. Which Nurses Join Professional Organizations? *Mod. Hosp.*, 97(3):123–125, 168. Sept. 1961.

B44. Measurement and Prediction of Nursing Performance (NU 00062).

INVESTIGATORS: Taylor, Calvin W., Ph.D., Professor of Psychology, University of Utah; Nahm, Helen, R.N., Ph.D., Dean, University of California School of Nursing, San Francisco; Quinn, Mildred, R.N., M.S., Dean, University of Utah College of Nursing, Salt Lake City.

This exploratory research in measurement and prediction of nursing skill included validation of performance predictors; development of new criteria for academic and on-job performance; and exploration of relationships between various criteria and predictors.

Dates: August 1962—December 1966.

PUBLICATIONS: Taylor, Calvin W., Helen Nahm, Mildred Quinn, et al. *Factor Analysis of Nursing Students' Application Data, Entrance Test Scores, Achievement Test Scores and Grades in Nursing School.* Report of *Measurement and Prediction of Nursing Performance.* Part I. University of Utah, Salt Lake City, 1965. 83 pp. (Hard Cover, 54 pp.)

Taylor, Calvin W., Helen Nahm, Mildred Quinn, Mary Harms, Jane Mulaik, and Stanley A. Mulaik. *Measurement and Prediction of Nursing Performance*, Part II. University of Utah, Salt Lake City, 1966. 84 pp.

Taylor, Calvin W., Helen Nahm, Lorraine Loy, Mary Harms, Jeanne Berthold, and John A. Wolfer. *Selective and Recruitment of Nurses and Nursing Students.* University of Utah Press, Salt Lake City, 1966. 89 pp.

B45. Prediction Studies in Nursing (GN 6330).

INVESTIGATORS: Taylor, Calvin W., Ph.D., Professor of Psychology, University of Utah, Salt Lake City; Nahm, Helen, R.N., Ph.D., Dean, University of California School of Nursing, San Francisco.

The investigators reviewed 111 studies on prediction of success in nursing and also selection and guidance devices used by 698 nursing schools. Information was obtained on nursing student selection techniques and their validation.

Dates: April 1959—August 1961.

PUBLICATIONS: Hill, Lorraine Loy, Calvin W. Taylor, and Jane E. Stacy. Is There a Correlation Between Attrition in Nursing Schools and Job Turnover in Professional Nursing? *Nurs. Outlook*, 11:666–669, Sept. 1963.

Taylor, Calvin W. Are We Utilizing Our Creative Potentialities? *Nurs. Outlook*, 11:105–107, Feb. 1963.

Taylor, Calvin W., Helen Nahm, Lorraine Loy Hill, Mary Harms, Jeanne Berthold, and John A. Wolfer. *Selection and Recruitment of Nurses and Nursing Students—A Review of Research Studies and Practices.* University of Utah Press, Salt City, Aug. 1963. 96 pp.

B46. Preparation of Nurses as Family Health Workers (GN 6382).

INVESTIGATORS: Taylor, Margaret S., R.N., M.A., Associate Professor, California School of Nursing, San Francisco; and Jenney, Martha, M.S., Assistant Professor, Brigham Young University College of Nursing, Provo, Utah.

Two types of nurses were compared in this pilot project—nurses who, over a period of time, were afforded quality experiences which support current theory, and nurses who were exposed to a large volume of unselected situations in rapid succession.

Dates: April 1959—March 1960.

PUBLICATIONS: None.

B47. Causes of Student Withdrawal from Nurse Training (GN 8035).

INVESTIGATOR: Teal, Gilbert E., Ph.D., Senior Scientist, Public Service Research Institute, Stanford, Conn.

Reasons for dropouts from nursing school were analyzed in order to improve student selection techniques and enhance the experience of education for professional nursing.

Dates: May 1961—June 1962.

PUBLICATIONS: None.

B48. Prediction of Success in Nursing Education (NU 00018).

INVESTIGATORS: Thurston, John R., Ph.D., Assistant Professor of Psychology, Wisconsin State College, Eau Claire; and Brunclik, Helen L., M.N., Director of Nursing, Luther Hospital, Eau Claire, Wis.

New instruments were developed to evaluate personality and to predict success in nursing. The instruments were tested with students from three nursing schools.

Dates: January 1959—January 1968.

PUBLICATIONS: Thurston, John R., Helen L. Brunclik, and Patricia A. Finn. The relationship of MMPI Scores to Personality and Achievement Levels of Student Nurses. *J. Psychol. Studies*, 1(2):75–86, Mar. 1961.

Thurston, J. R., and H. L. Brunclik. *Luther Hospital Sentence Completions.* Nursing Research Associates, Eau Clarie, Wis., 1959.

Thurston, J. R., H. L. Brunclik and P. A. Finn. The Prediction Success in Nursing Education. Brief Reports, *Nurs. Res.*, 10:97–98, 1961.

Thurston, John R., The Fall-Out Problems in Nursing Education. *Nurs. Forum*, 1 (4):90–97, 1962.

Thurston, John R., Helen L. Brunclik, and Patricia A. Finn. A Method for Evaluating the Attitudes of Prospective Nursing Students. *J. Nurs. Educ.*, May-June 1963.

Thurston, J. R., P. A. Finn and H. L. Brunclik, A Method for Evaluating the Attitudes of Student Nurses. *J. Nurs. Educ.*, 1:3–7:23–26, 1963.

Thurston, J. R., and H. L. Brunclik, *Nursing Sentence Completions.* Nursing Research Associates, Eau Claire, Wis., 1964.

Thurston, John R., and Helen L. Brunclik. The Relationships of Personality to Achievement in Nursing Education. *Nurs. Res.*, 14:3:203–209, Summer 1965.

Brunclik, H. L., and J. R. Thurston. Nursing Student Attrition. *Nurs. Outlook*, 13:57–59, 1965.

Thurston, J. R., and H. L. Brunclik. *Luther Hospital Sentence Completions and Nursing Sentence Completions—A Manual.* Luther Hospital, Eau Claire, Wis., 1965.

Thurston, J. R., and H. L. Brunclik *Nurse Attitudes Inventory,* Luther Hospital, Eau Claire, Wis., 1965.

Thurston, J. R., and H. L. Brunclik. *The Prediction of Success in Nursing Education, Phase I,* 1959–64. Luther Hospital, Eau Claire, Wis., 1965, 316 pp.

Thurston, J. R., and H. L. Brunclik. Search or Research? The Prediction of Success in Schools of Nursing. *Nurs. Outlook*, 13:38, 1965.

Thurston, J. R., and H. L. Brunclik. Nurse Attitudes Inventory. In Research Reporter, *Nurs. Res.*, 15:3:271–272, Summer 1966.

Thurston, J. R., and H. L. Brunclik. *Empathy Inventory.* Nursing Research Associates, Eau Claire, Wis., 1966.

Thurston, J. R., H. L. Brunclik, and J. R. Feldhusen. *The Prediction of Success in Nursing Education, Comprehensive Report: Phase I and Phase II, 1959–1967 Manual for LHSC AND NSC.* Luther Hospital, Eau Claire, Wis., 1967, 266 pp.

Brunclik, H. L., J. R. Thurston, and J. F. Feldhusen. Empathy Inventory. *Nurs. Outlook*, 15:42–45, 1967.

Thurston, John R., Helen L. Brunclik, and John F. Feldhusen. The Relationship of Personality to Achievement in Nursing Education, Phase II. *Nurs. Res.*, 17:3:265–268, May-June 1968.

Thurston, John R., Helen L. Brunclik, and John F. Feldhusen. *The Prediction of Success in Nursing Education, Phase III, 1967–1968.* Luther Hospital, Eau Claire, Wis., 1968, 114 pp.

B49. Curriculum Research Process in Nursing Education (GN 4727).

INVESTIGATORS: Tschudin, Mary S., R. N., Ph.D., Dean, School of Nursing; Hill, Richard J., Ph.D., Assistant Professor of Sociology; Belcher, Helen C., R. N., M. S., Assistant Professor of Nursing; and Enos, Lucy D., R. N., M. A., Assistant Investigator, Curriculum Research Project, University of Washington, Seattle, Wash.

Investigation made of the generally accepted criteria for curriculum planning and factors that help or hinder faculty participation in curriculum research.

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Dates: June 1956—September 1957.
PUBLICATION: Hawkins, Norman G. *Curriculum Research Process in Nursing Education.* University of Washington, Sept. 1957, processed. Limited Distribution.

B50. Variables Associated with Educational Achievement (GN 6145).
INVESTIGATOR: Voss, Charlotte E., R. N., Ed.D., Director of Nursing Education, Cuyahoga County Hospital, and Assistant Professor of Nursing, Case Western Reserve University, Cleveland, Ohio.

More than 150 students in three diploma schools of nursing cooperated in tests to differentiate the personality characteristics of underachievers, normal achievers, and overachievers. An effort was made to select scale and inventory items identifiable with achievement differences.
Dates: January 1959—December 1959.
PUBLICATION: Voss, Charlotte E. Variables Associated with Overachievement and Underachievement at the School of Nursing, Hospital of the University of Pennsylvania. *Nurs. Res.*, 9:84, Spring 1960.

B51. A Longitudinal Study of Nursing Careers (NU 00175).
INVESTIGATOR: Pavalko, Ronald M., Ph.D. Assistant Professor of Sociology, Department of Sociology, University of Wisconsin, Madison.

An exploratory study designed to examine the social and social-psychological determinants of entry into the nursing profession. The investigator followed the post-high school educational and occupational careers of a cohort of high school senior girls who planned to become registered nurses.
Dates: June 1965—May 1966.
PUBLICATIONS: None.

B52. The Return on Investments in Training for Nurses and Physicians (NU 00277).
INVESTIGATOR: Yett, Donald E., Ph.D. Director, Human Resources Research Center, Graduate School of Business Administration, University of Southern California, Los Angeles.

The investigator has applied the internal rate of return and capitalized present value techniques of investment analysis to new data about nurses' incomes by age and physicians' net incomes by age, specialty, mode of practice, and geographic region.
Dates: August 1967—July 1968.
PUBLICATIONS: Yett, Donald E. The Causes and Consequences of Salary Differentials in Nursing. *West. Econ. J.*, 5:103, Dec. 1966.

Yett, Donald E. An Evaluation of Alternative Methods of Estimating Physicians' Expenses Relative to Output. *Inquiry*, 4:3–27, Mar. 1967.

Yett, Donald E., and Melvin Borland. The Cash Value of College—for Negroes and Whites. *Trans-Action*, 5:44–49, Nov. 1967.

Yett, Donald E., and Judith K. Mann. A Reinterpretation of Hospital Cost Analyses. *West. Econ. J.*, 5:386, Sept. 1967.

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SECTION C

RESEARCH DEVELOPMENT

C1. Conference on Research in Nursing (GN 5370).
INVESTIGATOR: Fry, Vera, R.N., Ed.D., Professor of Public Health Nursing Administration, University of California School of Nursing, Berkeley-San Francisco.

Under sponsorship of the Western Interstate Commission for Higher Education, hospital head nurses, public health nursing supervisors, and university nurse faculty met at Berkeley, California, to identify research needs and to stimulate action for improvement of patient care.

Dates: November 1957—August 1958.

PUBLICATIONS: Fry, Vera. A Conference on Research in Nursing. *Nurs. Res.*, 7:52–56, June 1958.

C2. Conference and Workshop on Nursing Research (GN 5686).
INVESTIGATOR: Hardin, Clara, Ph.D., Executive Director, American Nurses' Foundation, Inc., New York.

Nurses, social scientists and others engaged in, or actively concerned with, nursing research met at Western Reserve University for a 4-day conference to exchange information and discuss priorities for future nursing studies.

Dates: April 1958—March 1959.

PUBLICATIONS: None.

C3. Conference on On-Going Research Projects in Nursing (GN 5393).
INVESTIGATOR: Hoffman, Katherine, R.N., Ph.D., Assistant Dean, University of Washington School of Nursing, Seattle, Wash.

A group of some 30 nurse leaders met with representatives of several other disciplines for an exchange of information about nursing studies in progress at western institutions of higher education.

Dates: December 1957—November 1958.

PUBLICATIONS: Hoffman, Katherine. *On-Going Research Projects in Nursing in the Western Region. A Conference Sponsored by the Western Council on Higher Education in Nursing, April 30–May 2, 1958.* WCHEN, Boulder, Colo. 1958, processed, 183 pp.

C4. Conference on Teaching and Guiding Nursing Research (GN 5320).
INVESTIGATORS: Kelly, Katherine Joan, R.N., M.A., Professor of Nursing; and Hibbard, Marjory G., R.N., Ed.D., Professor of Nursing, University of Colorado School of Nursing, Boulder, Colo.

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Under the joint sponsorship of the University of Colorado School of Nursing and the Western Council on Higher Education in Nursing, faculty from eight western universities attended a series of four multidisciplinary conferences designed to strengthen their teaching and research methods.
Dates: October 1957—November 1961.
PUBLICATIONS: None.

C5. Nursing Research Critiques (NU 00132).
INVESTIGATOR: McDowell, Wanda E., R.N., PhD., Director, Research and Statistics, American Nurses' Association, New York.

Three annual conferences were held, beginning in 1965 to bring researchers together for mutual critique of their work and encouragement in the habit of communication about nursing research. About 40 participants attended each conference. Each of the conferences was held in a different region of the country.
Dates: September 1964—August 1967.
PUBLICATIONS: McDowell, Wanda. *First Nursing Research Conference*, American Nurses' Association, New York, Apr. 5–7, 1965, 153 pp.

McDowell, Wanda. *Second Nursing Research Conference*, Phoenix, Ariz., American Nurses' Association, New York, Feb. 28-Mar. 1–2, 1966, 169 pp.

McDowell, Wanda. *Third Nursing Research Conference*, Seattle, Wash., American Nurses' Association, New York, Feb. 27–28, Mar. 1, 1967.

C6. National Nursing Research Conference (GN 5235).
INVESTIGATORS: New, Peter K., M.A., Director, Nurse-Patient Resources Study; Nite, Gladys, R.N., M.A.; Deutscher, Irwin, M.S., Project Director, Metropolitan Nurse Studies; McPartland, Thomas, Ph.D., Research Analyst, Metropolitan Nurse Studies, Community Studies Inc., Kansas City, Mo.

A small group of people who were actively engaged in nursing research in all parts of the United States were brought together in a working conference for discussions of two main themes: (1) methodological and institutional problems in various stages of research, and (2) research needed in the several areas of nursing.
Dates: September 1957—July 1958.
PUBLICATIONS: New, Peter Kong-ming, Gladys Nite, Josephine Callahan, and Herbert Oeknigk. *Report, Nursing Research Conference, 9/12–14/57, Kansas City, No.* Community Studies, Inc., Kansas City, Mo., Mar. 1958, 110 pp.

C7. Abstracting of Reports of Studies in Nursing (GN 4970).
INVESTIGATORS: Bunge, Helen L., R.N., Ed.D., Executive Officer; McManus, R. Louise, R.N., Ph.D., Director; and Hilbert, Hortense, R.N., B.A. Institute of Research and Service in Nursing Education, Teachers College, Columbia University, New York.

Retrospective abstracts of nursing studies were prepared for publication and a plan was developed for a continuing abstracting service.
Dates: January 1957—April 1962.
PUBLICATIONS: Hilbert, Hortense. Abstracts of Studies in Public Health Nursing. (1924–1957). *Nurs. Res.*, 8:43–144, Spring 1959.

Hilbert, Hortense. A Trial Plan for Abstracting Reports of Studies in Nursing. *Nurs. Res.*, 11:172–175, Summer 1962.

C8. Nursing Research Index of Selected Nursing Periodicals (NU 00023).

INVESTIGATORS: Henderson, Virginia A., R.N., M.S., Research Associate; Raisig, L. Miles, MSLS; Markley, Lucy W., Ph.D.; and Smith, Ruth F., M.S., Research Assistants, Yale University School of Nursing, New Haven, Conn.

One international journal and all North American national nursing journals and monographs published between 1900 and 1960 were checked for references in order to prepare and publish a retrospective annotated index of nursing studies and to develop a design for periodic supplement.

Dates: September 1959—.

PUBLICATIONS: Henderson, Virginia. *Nursing Studies Index.* J. B. Lippincott Company, Philadelphia. Vol. I (1900–1929) (pending), Vol. II (1930–1949) (pending), Vol. III (1950–1956), 1966, 653 pp., and Vol. IV (1957–1959), 1964, 281 pp.

C9. Survey and Assessment of Areas and Methods of Research in Nursing (GN 3648).

INVESTIGATORS: Simmons, Leo W., Ph.D., Professor of Sociology; Davie, Maurice R., Ph.D., Chairman, Department of Sociology; Hiscock, Ira, Chairman, Department of Public Health; Bixler, Elizabeth, Dean, School of Nursing; Abrams, Ray H.; and Henderson, Virginia, R.N., M.A., Assisting Investigators, Yale University, New Haven, Conn.

This research was undertaken to produce a retrospective, classified and annotated bibliographical index of nursing research; to develop a plan for publishing it; and to design a means of compiling and publishing periodic supplements as a library tool for nurses and others interested in nursing research and the nursing occupation.

Dates: August 1952—July 1955.

PUBLICATIONS: Henderson, Virginia. An Overview of Nursing Research. *Nurs. Res.*, 6:(2) 61–71, Oct. 1957.

Simmons, Leo W., and Virginia Henderson. *Survey and Assessment of Nursing Research.* Appleton-Century-Crofts, New York, 1964. 461 pp.

C10. Climate of Scientific Inquiry for Faculty Development (NU 00139).

INVESTIGATORS: Coulter, Pearl Parvin, M.S., Director, School of Nursing; Sorensen, Gladys, Ph.D., Professor of Nursing; Leonard, Robert, Ph.D., Department of Sociology, The University of Arizona, Tucson.

At the University of Arizona School of Nursing a project is being developed to extend the research competence of the faculty. The project, it is hoped, will also contribute new knowledge in nursing, enrichment of the undergraduate teaching curriculum, and a foundation for a graduate program in nursing.

Dates: January 1965—.

PUBLICATIONS: Putt, Arlene M. A Comparison of Systolic and Diastolic Blood Pressure Readings by Auscultation and Palpation of the Brachial Artery. *Nurs. Res.*, 15:4–311–316, Fall 1966.

Furnas, E. Jane (co-author). *The Report of One Approach to the Identification of Essential Content in Baccalaureate Programs in Nursing*, Western Interstate Commission for Higher Education, Boulder, Feb. 1967.

C11. Research Training for Public Health Nurses (NU 00027).

INVESTIGATORS: Cumming, John Hamilton, M.D., New York State Department of Mental Hygiene; Rives, Ruth E., R.N., M.A., Chairman, Department of Mental Health Nursing, Upstate Medical Center, New York State Department of Mental Health, Syracuse, N.Y.

Students of public health nursing participated in research seminars and took part in a variety of planned community health studies. Purposes of the study were to determine the impact of such a program on analytic thinking; the kinds of public health nursing agencies which utilize such talent; whether such training generates role conflicts in the nurse, and how these are resolved; and whether, having orientation to research methods, nurses seek opportunity to use this knowledge.

Dates: January 1960—December 1962.

PUBLICATIONS: None.

C12. A Project To Develop Faculty Research Competence (NU 00056).

INVESTIGATORS: Fort, Ada, R.N., Ed.D., Dean; Pl[illegible]re, Margaret, R.N., Ph.D.; and Thigpen, Lorna, Ph.D., Director of Research in Nursing, Emory University School of Nursing, Atlanta, Ga.

A full-time nurse investigator has been working with the nurse faculty members of Emory University to help them increase their involvement in research in nursing.

Dates: June 1962—May 1967.

PUBLICATION: Thig[illegible], Lorna W., and J. Wanzer Drane. The Venn Diagram: A Tool for Conceptualization in Nursing. *Nurs. Res.*, 16:3: 252–260, Summer 1967.

C13. Faculty Project for Strengthening Research Competence (NU 00087).

INVESTIGATORS: Fritz, Edna L., R.N., Ed.D., Professor and Director, and Harris, Isabel, R.N., Ph.D., Associate Professor and Assistant Director. University of Minnesota School of Nursing, Minneapolis, Minn.

The primary purpose of this 5-year project was to increase research competence among members of the faculty of the University of Minnesota School of Nursing. Additional aims of the investigation were to enrich the graduate and undergraduate nursing curriculums, and to afford graduate students an opportunity to participate in research.

Dates: September 1963—March 1968.

PUBLICATIONS: None.

C14. An Evaluation and Study of Faculty Research Potential (NU 00020).

INVESTIGATORS: Hassenplug, Lulu Wolf, R.N., M.A., Dean; Meyer, Genevieve Rogge, Ph.D., Associate Research Psychologist; West, J. Stewart, M.S., Assistant Research Sociologist; and Meyer, Burton, Ph.D., Associate Research Psychologist. University of California School of Nursing, Los Angeles, Calif.

The aim of this investigation was to create a research-oriented environment in the University of California School of Nursing, and to evaluate the expected expansion of research potential among nurse faculty.

Dates: September 1959—August 1965.

PUBLICATIONS: Kaufmann, Margaret A., and Dorothy E. Brown. Pain Wears Many Faces. *Amer. J. Nurs.*, 61:48–51, Jan. 1961.

Parmelee, Arthur H., Jr., Helen R. Schultz, and Mildred A. Disbrow. Sleep Patterns of the Newborn. *J. Pediat.* 58:241–250, Feb. 1961.

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Palmer, Ruby A. Some Considerations of Acting Out Behavior in Nursing Situations. *Men. Hyg.*, 45:513–518, Oct. 1961.

Ringholz, Sharon, and Miriam Morris. A Test of Some Assumptions About Rooming-In. *Nurs. Res.*, 10:196–199, Fall 1961.

Johnson, Dorothy. Nursing Content in Baccalaureate and Higher Degree Programs. *Proceedings of the Council of Member Agencies, Dept. Baccalaureate and Higher Degree Program, NLN*, Williamsburg, Va., Mar. 1962.

Brantl, Virginia M., and Phyllis N. Esslinger. Genetics: Implications of the Nursing Curriculum. *Nurs. Forum*, 1:90–101, Spring 1962.

Johnson, Dorothy E. Consequences for Patients and Personnel. *Amer. J. Nurs.*, 62:96–100, May 1962.

Johnson, Dorothy. Professional Education for Pediatric Nursing. *Children*, 9:153–156, July-Aug. 1962.

Gunter, Laurie. Notes on Theoretical Framework for Nursing Research. *Nurs. Res.*, 11:219–222, Fall 1962.

Bullough, Bonnie. Where Should Isolation Stop? *Amer. J. Nurs.*, 62:86–89, Oct. 1962.

Kaufmann, Margaret. High-Level Wellness—A Pertinent Concept for the Health Professions. *Ment. Hyg.*, 47:57–62, Jan. 1963.

Drummond, Eleanor. The Respiratory Disease Campaign—Nursing Actions. *Amer. J. Nurs.*, 63:98, Mar. 1963.

Hassenplug, Lulu Wolf. The Report of the Surgeon General's Consultant Group on Nursing: Significance and Implications for Research in Nursing. *Nurs. Res.*, 12:68–71, Spring 1963.

Gunter, Laurie. Psychopathology and Stress in the Life Experience of Mothers of Premature Infants: A Comparative Study. *Amer. J. Obstet. Gynec.*, 86:333–340, June 1963.

Anderson, Robert S., Laurie M. Gunter, and Evelyn J. Kennedy. Evaluation of Clinical, Cultural and Psychosomatic Influences in Teaching and Management of Diabetic Patients: A Study of Medically Indigent Negro Patients. *Amer. J. Med. Sci.*, 245: 682–690, June 1963.

Disbrow, Mildred. A Foreign Student—Or a Classmate? *Nurs. Outlook*, 11:874–877, Dec. 1963.

Meyers, Mary E. The Effect of Types of Communication on Patients' Reactions to Stress. *Nurs. Res.*, 13:126–131, Spring 1964.

Gunter, Laurie, Virginia Brantl, Phyllis Esslinger, and Clara Arndt. A Study of Three Types of Nursing Care Assignments. *Nurs. Res.*, 13:20–28, Winter 1964.

Hassenplug, Lulu Wolf. *An Evaluation and Study of Faculty Research Potential.* School of Nursing, UCLA, Los Angeles, Dec. 1965, 102 pp.

Walike, B. Coleen, and Burton Meyer. Relation Between Placebo Reactivity and Selected Personality Factors. *Nurs. Res.*, 15:2; 119–123, Spring 1966.

Moss, Fay T., and Burton Meyer. The Effects of Nursing Interaction Upon Pain Relief in Patients. *Nurs. Res.*, 15:4:303–306, Fall 1966.

Brown, Helen M., Burton Meyer, and Clara Arndt. Postoperative Progress of Patients Treated for Relief of Parkinson's Syndrome. *Nurs. Res.*, 16:2:172–178, Spring 1967.

McCaffery, Margo, and Dorothy E. Johnson. Effect of Parent Group Discussion Upon Epistemic Responses. *Nurs. Res.*, 16:4:352–358, Fall 1967.

C15. Development of Faculty Research Competence (NU 00103).

INVESTIGATORS: Lynch, Theresa I., R.N., Ed.D., Dean Emeritus; Mereness, Dorothy A., R.N., Ed.D., Dean; and Lee, Anne S., B.A., Lecturer. University of Pennsylvania School of Nursing, Philadelphia.

Participants in a seminar to improve research competence among nursing faculty at the University of Pennsylvania developed exploratory studies to improve knowledge essential to improving care of patients. Early studies were concerned with the extent of gap and overlap of surgeon and nurse function during abdominal surgery; the effect of massage on postpartum pain; methods of counseling patients with a ruptured intervertebral disc and how therapy affects counseling.

Dates: January 1964—December 1966.

PUBLICATIONS: Lee, Anne S. An Experience with a Faculty Research Development Project in "Search or Research?" *Nurs. Outlook*, May 1965.

Mereness, Dorothy A. *Faculty Research Development Grant.* School of Nursing, University of Pennsylvania, 1964–66, 28 pp.

C16. Faculty Research Development (NU 00069).

INVESTIGATORS: Schlotfeldt, Rozella M., R.N., Ph.D., Dean and Professor of Nursing; and Berthold, Jeanne S., R.N., Ph.D., Assistant Professor of Nursing, Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland, Ohio.

Released time is afforded nurse faculty of the Frances Payne Bolton School of Nursing who have advanced preparation in the basic sciences (1) to conduct nursing research, (2) to stimulate research interest and identify research potential among their colleagues, and (3) to provide clinical nursing faculty the opportunity to participate in nursing studies.

Dates: January 1963—.

PUBLICATIONS: Berthold, Jeanne S. Nurses and Behavioral Scientists: An Alternative Assessment. *Nurs. Res.*, 12:3:. 153–156, 1963.

Taylor, C., H. Nahm, L. Loy, M. Harms, J. Berthold, and J. Wolfer. *Selection and Recruitment of Nurses and Nursing Students: A Review of Research Studies and Practices.* University of Utah, Salt Lake City, 1963, 91 pp. (Revised ed., 1966.)

Faddis M. What is Different About Geriatric Nursing? *J. Nurs. Educ.*, 2:13–15, May-June 1963.

Gregg, D. The Therapeutic Roles of Nurses. *Perspectives in Psychiatric Care*, 1:18–24, Jan.-Feb. 1963.

Schlotfeldt, R. M. Academic Preparation of School Nurses—Implications for Nursing Education. *J. School Health*, 33:6–8, Jan. 1963.

Schlotfeldt, R. M. Responsible Leadership: From Whom for What! *Nurs. Sci.*, 1:5–6: 341–349, Dec. 1963.

Schlotfeldt, R. M. The Changing Role of Nursing. *Nursing Care of the Cardiac Patient.* Proceedings of a Practicum, Division of Nursing, Ohio Department of Health, 1963.

Schlotfeldt, R. M. Partners in Collegiate Nursing Education, The University. *Nurs. Outlook,* 11:814–820, Nov. 1963.

Werner, A. Summary: An Exploratory Investigation of Teaching a Problem Solving Process in Group Therapy to Patients Diagnosed Chronic Alcoholism. *Some Clinical Approaches to Psychiatric Nursing.* S. F. Burd and M. A. Marshall, eds. Macmillan Co., 1963, New York. pp. 239–247.

Ford, A., S. Katz, M. Adams, and A. Cicchinelli. Continued Care by Public Health Nurses: An Experiment. *Clin. Res.* 12:296, Apr. 1964. Abstract.

Berthold, J. Theoretical and Empirical Clarification of Concepts. *Nurs. Sci.,* 2:5:406–422, 1964.

Parsons, O., J. Altrocchi, and F. Spring. Discrepancies in Interpersonal Perception, Adjustment and Therapeutic Skill. *Perception and Motor Skills,* 18:697–702, June 1964.

Werner, A., and J. C. Manaser. *Instruments for the Study of Nurse-Patient Interaction,* Macmillan Co., New York, 1964.

Ford, A., S. Katz, and M. Adams. Experimental Study of Public Health Nursing Care on Patient Welfare. *Clin. Res.,* 13:342, Apr. 1965.

Hawken, P. Hypophysectomy with Yttrium 90. *Amer. J. Nurs.,* 65:122–125, Oct. 1965.

Jackson, C. W., and E. L. Kelly. Influence of Suggestion and Subject's Prior Knowledge in Research on Sensory Deprivation. *Science* 132:211–212, 1962. Reprinted in *Readings for General Psychology,* F. Dambrot, A. S. Friedman, and J. A. Popplestone eds. W.M.C. Brown, Dubuque, 1965.

Jackson, C. W., and M. O'Neil. Experiences Associated with Sensory Deprivation for Patients Having Eye Surgery. *Ross Roundtable on Maternal and Child Nursing,* Marina del Rey, Calif., 1965, pp. 54–59.

Adams, M., M. Baron, and M. Caston. Urinary Incontinence in the Acute Phase of Cerebral Vascular Accident. *Nurs. Res.,* 15:100–108, Spring 1966.

Berthold, J. A Dialogue on Approaches to Doctoral Preparation: Introduction. *Nurs. Forum,* 5:2:48–104, 1966.

Harrison, C. Deliberative Nursing Process Versus Automatic Nurse Action. *Nurs. Clin. N. Amer.,* 1:3:387–397, Sept. 1966.

Howe, M. This Issue of Dying. (Paper given at American Nurses' Assn. Regional Clinical Conference, Wash., D.C., Nov. 1965 and in Chicago, Ill. Nov. 1965.) *Exploring Progress in Geriatric Nursing Practice.* American Nurses' Assn., New York, 6:24–32, 1966.

Jackson, C. W., and J. C. Pollard. Some Non-Deprivation Variables Which Influence the "Effects" of Experimental Sensory Deprivation. *J. Abn. Psychol.,* 71:5:383–388, 1966.

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Jackson, C. W., and J. Wohl. A Survey of Rorschach Teaching in the University. *J. Project. Techn.*, 30:115–134, 1966.

Schlotfeldt, R. M. Doctoral Study in Basic Disciplines—A Choice for Nurses. *Nurs. Forum*, 5:2:69–74, 1966.

Adams, M. Study of VNA Referrals Shows Quick Followup. Summaries of selected papers from 94th Annual Meeting of the American Public Health Association, San Francisco, Oct. 31-Nov. 4, 1966. *Public Health Rep.*, 82:202, Mar. 1967.

Reed, F. Collegiate Education for Nursing: The Qualitative Difference. *Nurs. Outlook*, 2:3:9–11, Spring 1967.

Reed, F. Baccalaureate Education and Professional Practice. *Nurs. Outlook*, 15:1:50–52, Jan. 1967.

Schlotfeldt, R. M. Preparation of Nurses for Faculty Positions. *Nurs. Outlook*, 15:26, 28, 29, Jan. 1967.

Schroeder, L. Hazards of Immobility: Effects on Urinary Function. *Amer. J. Nurs.*, 67:790–792, Apr. 1967.

Martin, A. Disorders of the Spinal Cord. *Med.-Surg. Nurs.* E. Giblin, et. al., eds. (in press).

Martin, A. Evaluating the Patient's Degree of Responsiveness. *Amer. J. Nurs.*, (in press).

Martin, A. Care of the Patient with Cerebral Aneurysm. *J. Nurs. Educ.* (in press).

Pitorak, E. Nursing Care of Patients with Eye Conditions. Chapter in new book to be published by McGraw Hill. (in press).

Pitorak, E. Current Trends in Cardiac Surgery. *Amer. J. Nurs.*, (in press).

Rich, R. Tests of Mathematical Models: Children's Behavior in Two-Person Games. *J. Mathematical Psychol.*, (in press).

Torrance, Jane T. Temperature Readings of Premature Infants. *Nurs. Res.*, 17:4:312–320, July-Aug. 1968.

C17. Improving Competence of Nursing Faculty in Research (NU 00043).

INVESTIGATORS: Shirk, Frieda I., R.N., Ed.D., Assistant Director, Ohio State University School of Nursing; Newton, Mildred E., R.N., Ed.D., Director, Ohio State University School of Nursing; Bullock, Robert P., Ph.D., Professor of Sociology; Lawson, Reed, Ph.D., Assistant Professor of Psychology; and Retzlaff, Ernest, Ph.D., Assistant Professor of Physiology, Ohio State University, The Ohio State University Research Foundation, Columbus, Ohio.

Faculty at the Ohio State University School of Nursing are receiving research training in the biological and social sciences as a first step in establishing a center for nursing research at this institution.

Dates: May 1962—.

PUBLICATIONS: Bellam, Gwendoline. The Effect of Age and Severity of Illness on the Number and Type of PRN Medications Ordered for the Pediatric Patient and Their Consequent Impact on the Number and Types of Decisions to be Made by the Pediatric Nurse. *Evaluation of Nursing Intervention.* Monograph No. 3. American Nurses' Association, New York, 1964, pp. 5–16.

Chambers, Wilda G., and Geraldine Price. A Survey of PRN Medication Orders Prescribed for Medical-Surgical Patients. *Evaluation of Nursing Intervention,* Monograph No. 3. American Nurses' Association, New York, 1964, pp. 17–25.

Dorsch, Helen, Alyce Poleyn, and Alma Wittmeyer. Doctors' Expectations of Nurse Action and Judgment in the Use of PRN Pain Medication Orders *Evaluation of Nursing Intervention,* Monograph No. 3, American Nurses' Association, New York, 1964, pp. 26–43.

Buckeridge, Ann J., Mary L. Geiser, and Betty J. Thomas. A Study of Overt Nurse Action when Darvon and Darvon Compound are Prescribed for PRN Administration. *Evaluation of Nursing Intervention,* Monograph No. 3, American Nurses' Association, New York, 1964, pp. 44–60.

Newton, Mildred E. *A Follow-up Study of Graduate Students in Nursing* 1956–1964. Ohio State University School of Nursing. Mar. 1965.

Newton, Mildred E. The case of Historical Research. *Nurs. Res.,* 14:20–26. Winter 1965.

C18. Utilization of Sabbaticals for Research Training in Nursing Education (NU 00048).

INVESTIGATORS: Simmons, Leo W., Ph.D., Professor of Education and Executive Officer, Institute of Research and Service in Nursing Education; Lambertsen, Eleanor C., R.N., Ed.D., Head, Department of Nursing Education; and Kelly, Ruth L., R.N., Ed.D., Assistant Professor, Teachers College, Columbia University, New York.

Major aims of this investigation were (1) to study use of sabbatical time for research training by baccalaureate and graduate nurse faculty, and (2) to provide a program of planned utilization by nurses of their sabbaticals for research training and compare it with similar experience of other disciplines.

Dates: September 1961—August 1966.

PUBLICATIONS: Kelly, Ruth Lundt. *Provisions for and Usuage Made of Sabbtical Leave in Baccalaureate and Graduate Schools of Nursing.* Institute of Research and Service in Nursing Education. Teachers College, Columbia University, New York, Sept. 1964, 127 pp.

Schulz, Esther D., and Eleanor C. Lambertsen. Use of Sabbaticals for Research Training. *Nurs. Res.,* 17:4:353–356, July-Aug. 1968.

C19. To Improve Faculty Competencies in Research (NU 00081).

INVESTIGATORS: Smith, Alice E., M.P.S., Chairman, Nursing Department, and Graham, Lois E., R.N., Ph.D., Project Director, Columbia Union College, Takoma Park, Md.

The object of the investigation was to develop at Columbia Union College a climate which will improve the research competence of nursing faculty and stimulate research interest among upperclassmen.

Dates: April 1964—December 1967.

PUBLICATIONS: Smith, Alice E., and Lois E. Graham. *Faculty Research Development Project.* (Final Report). Columbia Union College, School of Nursing, Takoma Park, Md., Dec. 1967, 58 pp.

Pride, L. Frances. An Adrenal Stress Index as a Criterion Measure for Nursing. *Nurs. Res.,* 17:4:292–303, July-Aug. 1966.

Graham, Lois E. A Faculty Research Development Project in a Baccalaureate Program in Nursing. *Nurs. Res.*, 17:4:321–326, July-Aug. 1968.

C20. A Project To Improve Research Competency in Faculty (NU 00112).
INVESTIGATORS: Smith, Dorothy M., M.Ed., Dean of the College of Nursing and Chief of Nursing Practice; and Whitner, Willamay, Ed.D. College of Nursing, University of Florida, Gainesville, Fla.

A 5-year project to improve research competency among nursing faculty at the University of Florida stressed research philosophy, methods, and evaluation. Participating faculty were required to develop and carry out research in nursing practice and education.

Dates: January 1964—.

PUBLICATIONS: Hayes, Carol W. The Measurement of Anxiety in Sophomore Nursing Students Using Zuckerman's AACL. *Nurs. Res.*, 15:262–267, Summer 1966.

Knowles, Lois. The Relationship Between the Number and Kinds of Observations on a Film and the Number of Readings Made by Selected Groups of Nursing Students. Processed.

Barton, Pauline. Development of Self-Instructional Materials in Pediatric Nursing. Processed.

Kordana, Jane H. Programming Instruction in Medical-Surgical Nursing. Processed.

Wilson, Jennet., Mary E. Hilliard, and Sandra Linebarger. A Project to Demonstrate the Teaching Role of the Nurse in the Pre-Natal Clinic. Processed.

Hayes, Carol V. Behavior Patterns in Open-Heart Surgery. Processed.

LaGodna, Gretchen, Joan Waugh, and Sarah Carlton, The Extent and Direction of Attitude Changes of Students Studying Psychiatric Nursing. Processed.

Remillet, June G. A Plan to Include Out-Patient Department Experience as a Part of the Public Health Nurses in the Curriculum of the College of Nursing, University of Florida, J. Hillis Miller Health Center. Processed.

Whitner, Willamay, and John P. Solomon, Body Temperature Indicator (BTI) Versus the Conventional Thermometer in Taking Body Temperatures. Processed.

C21. Improving Competencies in Research of Selected Nurses (NU 00030).
INVESTIGATORS: Sommermeyer, Lucille, R.N., Ed.M., Assistant Dean; Drummond, Eleanor, R.N., Ed.D., Associate Professor of Nursing; Kibrick, Anne K., R.N., Ed.D., Chairman, Graduate Division; and Farrell, Marie, R.N., Ed.D., Dean, School of Nursing; Alman, John, M.A., Director, Statistical and Research Services; Chin, Robert, Ph.D., Associate Professor of Psychology; Berkowitz, Norman, Ph.D., Assistant Professor, Human Relations Center; Fulton, George, Ph.D., Chairman, Biology Department; Kvaraceus, William, Ed.D., Professor of Education; and Orzack, Louis, Ph.D., Associate Professor of Sociology and Anthropology, Boston University, Boston.

Positions held by U.S. nurses with doctoral degrees, and factors which help or hinder research activity among nurse faculty, were identified. Opportunity was provided members of the university faculty and doctoral candidates in health-related disciplines to engage in research and work conferences which stressed research in combination with teaching.

Dates: September 1960—May 1966.

PUBLICATIONS: Kibrick, Anne K. Drop-outs in Schools of Nursing: The Effect of Self and Role Perceptions. *Nurs. Res.*, 12:140–149, Summer 1963.

Monteiro, Lois A. Notes on Patient Teaching—A Neglected Area. *Nurs. Forum*, 3(1):26–33, 1964.

Ward, Catherine, and Constance Rosenberger. *Development of a Sound Adjustment Rating Scale for Hospitalized Psychiatric Patients.* Research Reports, Number 1. Boston University School of Nursing, Boston, 1965, 32 pp.

Spatafore, Elvira. *Development of a Tool to be Used to Test the Clustering of Diseases Around Nursing Care Problems.* Research Reports, Number 2. Boston University School of Nursing, Boston, 1965, 23 pp.

Sawitsky, Helen M. *Self-Examination of the Breasts—A Teaching Challenge.* Research Reports, Number 3, Boston University School of Nursing, Boston, 1965, 34 pp.

Ferguson, Charlotte. *The Research Process: A Case History.* Research Reports, Number 4, Boston University School of Nursing, Boston, 1965, 19 pp.

Hargreaves, Anne, and L. Marion Heath. *A Study of the Values of Students Graduating from Boston University School of Nursing in* 1962–1963–1964. Research Reports, Number 5, Boston University School of Nursing, Boston, 1965, 15 pp.

Berkley, Sara, Marjory Gorden, and Florence Smith. *Achievement Test in the Basic Sciences and Nursing Research Reports,* Number 6, Boston University School of Nursing, Boston 1965, 55 pp.

Pearman, Eleanor C., and Louise F. Suleiman. *Development, Testing and Evaluation of a Programed Instruction Unit in Nursing.* Research Reports, Number 7, Boston University School of Nursing, Boston, 1965, 42 pp.

Spurgeon, Roberta K. *Analysis of the Verbal Communication of a Nurse with Three Autistic Children,* Research Reports, Number 8, Boston University School of Nursing, Boston, 1965, 50 pp.

Gorden, Marjory. *Nursing Knowledge of Entering Graduate Students,* Research Reports, Number 9, Boston University School of Nursing, Boston, 1965, 23 pp.

C22. Program for Research Development in Nursing (NU 00022).

INVESTIGATORS: Tschudin, Mary S., R.N., Ph.D., Dean; Mansfield, Louise, M.A., Assistant Professor; Brandt, Edna Mae, M.N., Assistant Professor, School of Nursing; Hillmer, Max, Ph.D., Department of Psychology; and Sharp, Lawrence J., Ph.D., Department of Sociology, University of Washington, Seattle.

The aim of the research project was to effect a research-oriented environment which would result in an increased research potential among nurse

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faculty and in the establishment of a research training program for nurses at the doctoral level.

Dates: October 1959—September 1964.

PUBLICATIONS: Gray, Florence, and Dolores Little. It's Not Just a Matter of Will Power. *Amer. J. Nurs.*, 61:101–103, Nov. 1961.

Batey, Marjorie V., Marian Kalkman, Sumiko Fuyiki, Ruby Palmer, and Opal White. Defining Graduate Clinical Content in Psychiatric Nursing. *J. Nurs. Educ.*, 1:13–14, 27–29, Feb. 1962.

Sorensen, Karen, and Ronald Fagan. The Hospitalized Skid Road Alcoholic *Nurs. Forum*, 2:88–112, 1963.

Tschudin, Mary S. What Should We Expect of Graduates of a Professional Nursing Program? *Report of the Planning Conference, Professional Nursing Program for Liberal Arts Graduates, 2/26-3/2, 1962*, Seattle University, 1962.

Giblin, Elizabeth C. Increasing the Effectiveness of Nurse Therapeutic Services. *Report of the Fifth Annual WCHEN Conference Denver, 3/22-23/62*, WICHE, 1962.

Bruno, Pauline, and Shirley Frederickson. A Section Looks at Itself. *Amer. J. Nurs.*, 62:104–105, May 1962.

Chinque, Katherine. The Management of Children with Phenylketonuria. *Nurs. Outlook*, 10:328–331, May 1962.

Hastie, Elizabeth M. How Do We Encourage Superior Students? (If You Ask Me.) *Amer. J. Nurs.*, 62:28, July 1962.

Batey, Marjorie, and Joseph Julian. Some Suggested Hypotheses Concerning Consensus on Organizational Goals Within and Between Staff Categories in a State Psychiatric Hospital. *Res. Bull.*, Washington State Division of Mental Health, Vol. 4, Olympia, July 1962.

Hoffman, Katherine, and others. ANA Blueprint for Research in Nursing Emotional Needs. *Wash. J. Nurs.*, 34:4–7, Sept. 1962.

Rose, Patricia. Using the Student Diary to Identify Stress-Satisfaction. *Amer. J. Nurs.*, 62:94–95, Aug. 1962.

Critchley, Deane. A Description of a Nurse-Patient Relationship with a Hospitalized Psychotic Boy. *Phases in Human Development: Relevance in Nursing. ANA Monograph 16.* Sept. 1962.

Rose, Patricia Ann. Maternity Nurse Can Help Patient by Understanding Emotional Needs. *Wash. J. Nurs.*, 34:4–7, Sept. 1962.

Jeschke, Dorothy Burke. Exceptional Students in Nursing. *Nurs. Outlook*, 10:689–691, Oct. 1962.

Heinemann, Edith, Lyndall Birkbeck, and Thomas Sheehy. Tuberculosis Infection Rates Among Nursing Students. *Nurs. Outlook*, 10:738–741, Nov. 1962.

Rose, Patricia Ann. Identification and Application of Psychiatric Principles in the Nursing Care of Maternity Care of Patients. *Phases in Human Development: Relevance in Nursing. ANA Monograph No. 14*, 1962.

Batey, Marjorie V. Interferences to the Development of the Therapeutic Role. *Report of the Conference of the Council of Member Agencies. Department of Baccalaureate and Higher Degree Programs, Phoenix, 11/14-16/62.* NLN, New York, Dec. 1962.

Heinemann, Edith, Arnold Linskey, and Ronald Fagan. *First Preliminary Report on the Study of Staff Attitudes and Knowledge Concerning Alcoholism.* University of Washington, Seattle. Mimeographed. 1962.

Sharp, Lawrence J., and F. Ivan Nye. Maternal Mental Health. *The Employed Mother in America.* Rand McNally and Company, Chicago. 1963. pp. 309–319.

Rose, Patricia Ann. Using Diaries to Identify Stress in Students. *Pediatric Nurs. Currents,* 10:3–4, Jan. 1963.

Sorensen, Karen. Skid Road Alcoholic—A Sub-Cultural Group. *Swans' Song,* 4:2–3, Jan. 1963.

Batey, Marjorie, and Jeanette Nehren. The Process Recording: A Method of Teaching Interpersonal Relationship Skills. *Nurs. Forum,* 2:65–74, 1963.

Batey, Marjorie V. Opportunities in Psychiatric Nursing. *Wash. J. Nurs.,* 32:11, Feb.-Mar. 1963.

Batey, Marjorie, and Joseph Julian. Staff Perceptions of State Psychiatric Hospital Goals. *Nurs. Res.,* 12:89–92, Spring 1963.

Little, Dolores. The Say Nothing and Tell Nothing Concept of Nursing. *Nurs. Forum,* 2:38–45, 1963.

Murray, B. Louise, Nola K. McConnell, and Janet M. Claypool. Implications for Learning: Persistent Aspects of Maternal-Child Nursing Situations. *J. Nurs. Educ.,* 2:5–9, 22–24, Feb.-Mar. 1963.

Little, Dolores. The Folly and Facts about Medications. *Nurs. Outlook,* 11:494–496, July 1963.

Baker, Joan, and Karen C. Sorensen. A Patient's Concern with Death. *Amer. J. Nurs.,* 63:90–92, July 1963.

Baker, Joan. The Clinical Problem of Not Me. *Some Clinical Approaches to Psychiatric Nursing.* Macmillan Company, New York, 1963, pp. 130–136.

Patrick, Maxine L. Irregular Patient Discharges from Tuberculosis Hospital. *Nurs. Res.,* 12:23–28, Winter 1963.

Anderson, E. Elaine, Marienne Davis, Cathryn Mainwaring, and Joan Ryan. *Rehabilitation Nursing: A Source Guide for Instructors.* Kenny Rehabilitation Institute, Minneapolis, Minn., 1963.

Tschudin, Mary S., and Lawrence J. Sharp. *Faculty Research Development Program.* (Final Report). University of Washington School of Nursing, Seattle, Aug. 1965.

Brandt, Edna Mae, Bettimae Hastie, and Delores Schumann. Comparison of On-The-Job Performance of Graduates with School of Nursing Objectives. *Nurs. Res.,* 13:1:50–60, Winter 1967.

Gunter, Laurie M. Notes on a Proposed Center for Nursing Research. *Nurs. Res.,* 16:2:185, Spring 1967.

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Heinemann, Edith, and Robert J. Rhodes. How Nurses View the Tuberculosis Alcoholic Patient. *Nurs. Res.*, 16:4:361–365, Fall 1967.

Redman, Barbara C. Nursing Teacher Perceptiveness of Student Attitudes. *Nurs. Res.*, 17:1:59–64, Jan.-Feb. 1968.

C23. Proposal to Develop Nursing Faculty Research Ability (NU 00063).

INVESTIGATOR: Wald, Florence S., M.N., M.S., Dean, Yale University School of Nursing, New Haven, Conn.

Experts in social and biological sciences are assisting Yale University nurse faculty to pursue graduate study in related disciplines, to conduct nursing studies, and to apply their study findings to clinical nursing practice.

Dates: September 1962—.

PUBLICATIONS: Wald, Florence S., and Robert C. Leonard. Toward Development of Nursing Practice Theory. *Nurs. Res.*, 13:309–313, Fall 1964.

Wiedenbach, Ernestine. *Clinical Nursing: A Helping Art.* Springer Publishing Co. New York, 1964. 118 pp.

Anderson, Barbara, H. Mertz, and R. C. Leonard. Two Experimental Tests of a Patient-Centered Admission Process. *Nurs. Res.*, 14:151–157, Spring 1965.

Dye, Mary C., and Paul Errera. M.D. Emotional Steam Clouds Emergency Care. *Mod. Hosp.*, 104–87–92, Feb. 1965.

Leonard, Robert C. Research in a Practice-Oriented Discipline. *Amer. J. Nurs.*, 67:7–1472–1475, July 1967.

Conant, Lucy H. On Becoming a Nurse Researcher. *Nurs. Res.*, 17:1:68–71, Jan.-Feb. 1968.

Dickoff, James, Patricia James, and Ernestine Wiedenbach. Theory in a Practice Discipline. *Nurs. Res.*, 17:5:415–435, Sept.-Oct. 1968.

Dickoff, James, Patricia James, and Ernestine Wiedenbach. Theory in a Practice Discipline: Part II. Practice Oriented Research. *Nurs. Res.*, 17:6:545–554, Nov.-Dec. 1968.

Skipper, James K., and R.C. Leonard. Health, Illness and Depersonalization of Hospitalized Patients, *Principles of Sociology*, R.W. Mack and K. Young eds. American Book Company, Cincinnati, Ohio, 1968.

C24. Exploratory Study To Design a Research Project (GN 5670).

INVESTIGATOR: Whelan, Rona, R.N., M.P.H., Michigan Department of Health, Lansing, Mich.

Consultants in public health, mental health, and the behavioral sciences met under the sponsorship of the Michigan Department of Health to explore the feasibility of research on the role of the public health nurse in caring for the mentally ill within the community.

Dates: February 1958—February 1959.

PUBLICATIONS: None.

C25. Multidisciplinary Nurse Scientist Graduate Training Program in Psychology, Physiology, Socio-Anthropology (5T1–NU–05005).

INVESTIGATOR: Berthold, Jeanne S., R.N., Ph.D., Associate Professor of Nursing, Case Western Reserve University, Cleveland, Ohio.

This was one of the first Nurse Scientist Graduate Training programs to be established. Highly selected nurses are prepared to the Ph.D. level in the basic sciences while maintaining their identity as members of the nursing profession. The following publications resulted from a seminar conducted as a part of the training program.

Dates: July 1963—.

PUBLICATIONS: Schlotfeldt, Rozella M. Research—How will Nursing Define It? *Nurs. Res.*, 16:2:108–109, Spring 1967.

Quint, Jeanne C. The Case for Theories Generated from Empirical Data. *Nurs. Res.*, 16:2:109–114, Spring 1967.

Conant, Lucy H. A Search for Resolution of Existing Problems in Nursing. *Nurs. Res.*, 16:2:114–117, Spring 1967.

Cleland, Virginia S. The Use of Existing Theories. *Nurs. Res.*, 16:2:118–121, Spring 1967.

Kolthoff, Norma J. The Use of the Laboratory. *Nurs. Res.*, 16:2:122–124, Spring 1967.

Research—How Will Nursing Define It? Panel Discussion. *Nurs. Res.*, 16:2:124–129, Spring 1967.

Berthold, Jeanne S. Symposium on Theory Development in Nursing Prologue. *Nurs. Res.*, 17:3:196–197, May-June 1968.

Dickoff, James, and Patricia James. A Theory of Theories: A Position Paper. *Nurs. Res.*, 17:3:197–203, May-June 1968.

Dickoff, James, and Patricia James. Researching Research's Role in Theory Development. *Nurs. Res.*, 17:3:204–206, May-June 1968.

Johnson, Dorothy. Theory in Nursing: Borrowed and Unique. *Nurs. Res.*, 17:3:206–209. May-June 1968.

Rubin, Reva. A Theory of Clinical Nursing. *Nurs. Res.*, 17:3:210–212, May-June 1968.

Brown, Myrtle Irene. Social Theory in Geriatric Nursing Research. *Nurs. Res.*, 17:3:213–217, May-June 1968.

Ellis, Rosemary. Characteristics of Significant Theories. *Nurs. Res.*, 17:3:217–222, May-June 1968.

Symposium on Theory Development in Nursing. Panel Discussion. *Nurs. Res.*, 17:3:223–227, May-June 1968.

C26. Multidisciplinary Nurse Scientist Graduate Training Program in Anthropology, Physiology, Sociology, and Psychology (5T1–NU–05008).

INVESTIGATOR: Leininger, Madeleine M., R.N., Ph.D., Professor of Nursing and Anthropology, University of Colorado.

This is a multidisciplinary training program in the basic sciences for the preparation of nurse scientists to the Ph.D. Level. The following publications resulted from a seminar, "The Nature of Science and Nursing," that was conducted as a part of the training program.

Dates: July 1967—.

PUBLICATIONS: Leininger, Madeleine. The Nature of Science and Nursing. Introductory Comments. *Nurs. Res.*, 17:6:484–485, Nov.-Dec. 1968.

Schrag, Clarence. Science and the Helping Professions. *Nurs. Res.*, 17:6:486–496, Nov-Dec. 1968.

Crowley, Dorothy M. Perspectives of Pure Science. *Nurs. Res.*, 17:6:497–501, Nov.-Dec. 1968.

Folta, Jeannette R. Perspectives of an Applied Scientist. *Nurs. Res.*, 17:6:502–507, Nov.-Dec. 1968.

Simon, Helen M. Panel Discussion: The Position of the Pure and Applied Scientist. *Nurs. Res.*, 17:6:507–512, Nov.-Dec. 1968.

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